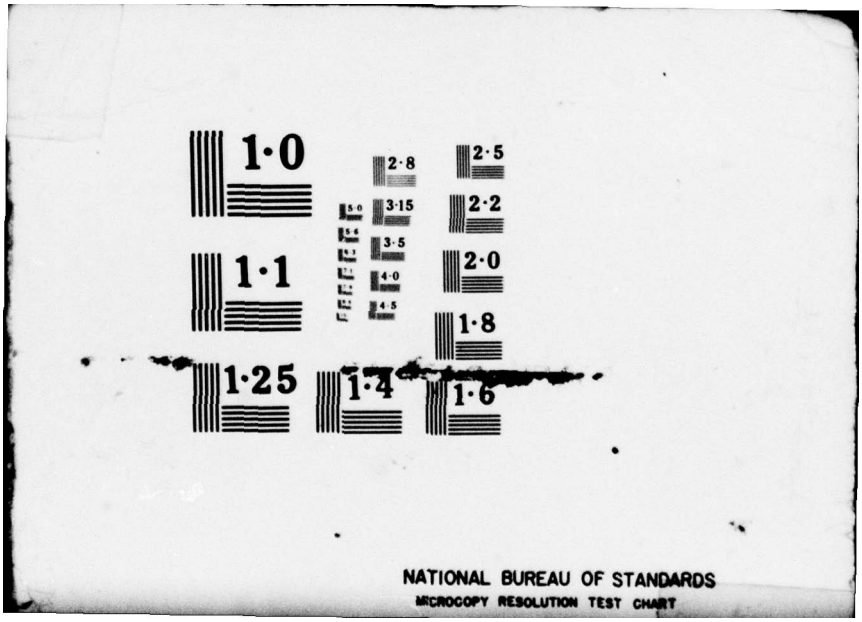
AD-A072 531 HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA F/G 5/9
USER MANUAL FOR THE MINIATURE ARMOR BATTLEFIELD (MAB). APPENDIX--ETC(U)
1962 DA-44-188-ARO-2

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LEVEL II

(6) User Manual for the Miniature Armor Battlefield (MAB). Appendix A. Tank Platoon Tactical Exercises Used with the Miniature Armor Battlefield. Appendix B. Criterion Tests Used for Evaluating the Effectiveness of MAB Training.

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APPENDIX A: Tank Platoon Tactical Exercises used with the Miniature Armor Battlefield

PROBLEM I - Advance, Seize Critical Terrain, Deny Enemy an Avenue of Approach

1. GENERAL

a. Terrain. The terrain will be emplaced as shown on attached MAP "A". The curtain will be closed in the center of the "battlefield", thereby screening from view a portion of TOWN, all of LIVE ROAD, and HILLS "C" and "D".

b. Enemy. Enemy weapons will be located and sited as indicated on MAP "A". These enemy forces will be concealed from view, and each will be numbered as shown. The INSTRUCTOR will control all enemy activity. Whenever the INSTRUCTOR orders an enemy weapon to fire, ASSISTANT INSTRUCTORS will employ "cracker-ball" ammo to alert the platoon to the fact that the platoon is under fire. Enemy casualties will be assessed by the INSTRUCTOR in response to correct Test Platoon action. The INSTRUCTOR will order enemy guns to fire whenever the Test Platoon does not employ recon by fire on an area in which an enemy weapon is located.

c. Test Platoon. The Test Platoon initially will be located as shown on MAP "B". The Test Platoon leader will be given an oral Operation Order and five copies of MAP "B" by the INSTRUCTOR. The Test Platoon leader will then have 15 minutes to complete his visual and map reconnaissance, brief his tank commanders, and issue his orders. The problem will be "free play" as far as the Test Platoon is concerned. Test Platoon casualties will not be assessed, but will occur normally as the platoon employs improper or incorrect or faulty tactics and techniques. (See paragraph 1b above and paragraph 1d below.) All Test Platoon tanks knocked out by enemy action will remain out of action for the duration of the problem. If the Test Platoon leader's tank is knocked out, the platoon sergeant will assume command (on order of the INSTRUCTOR); if both the platoon sergeant's and platoon leader's tanks are knocked out, the INSTRUCTOR will designate a tank commander to assume command, with the resultant loss of communications to the team commander (INSTRUCTOR), but with platoon communications to the remaining tanks.

d. The Instructor. The INSTRUCTOR will be completely familiar with this document in its entirety. In addition, the INSTRUCTOR will act as the Test Platoon team commander, and will respond to all calls made by the Test Platoon leader; however, the INSTRUCTOR will refrain from coaching the Test Platoon leader. The INSTRUCTOR will orally issue the Operation Order to the Test Platoon leader and give him five copies of MAP "B". No other instructions, reference the problem, will be divulged. When the Test Platoon leader indicates he is ready, the INSTRUCTOR will command "MOVE OUT." The ASSISTANT INSTRUCTOR will plot all Test Platoon moves on a copy of MAP "A". If the Test Platoon loses four (4) tanks to enemy action BEFORE the problem is completed, the INSTEUCTOR will appoint a new platoon leader and the problem will be run again WITHOUT benefit of a critique. A critique will be conducted ONLY if the problem is completed.

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PROBLEM I (Continued)

2. CONCEPT OF THE PROBLEM

a. Platoon Mission. The mission of the Test Platoon is to deny the use of LIVE ROAD to the enemy as an avenue of approach into TOWN. (See paragraph 3, operation order.)

b. Platoon Movement. The platoon will move as directed by the Test Platoon leader; he will be responsible for all his platoon does or fails to do, and will be scored accordingly. (See paragraph 4, Solutions and Scoring.)

c. Enemy Action. Enemy action will be dependent upon the action taken by the Test Platoon, and will be controlled by the INSTRUCTOR through his ASSISTANT INSTRUCTORS.

(1) WOODS "A". Regardless of the Test Platoon formation, or method of advance, if the platoon does not reconnoiter WOODS "A" by fire, the INSTRUCTOR will order Number 1 (enemy AT Gun) to fire at any test tank which crosses its light beam. If WOODS "A" is reconnoitered by fire, the AT Gun will be declared out of action; or, if the AT Gun has fired (because WOODS "A" had not been reconnoitered by fire) and the Test Platoon returns this fire, the AT Gun will be declared out of action.

(2) The Curtain. The INSTRUCTOR will cause the curtain to be opened as the lead tank of the Test Platoon approaches the approximate vicinity of POINT "X". (See MAP "A".)

(3) Enemy Position 2. If any Test Platoon tanks move to the left (east) of HILL "B", and do not reconnoiter the forward (west) edge of TOWN, the INSTRUCTOR will order Number 2 to open fire. The same conditions will exist, as explained for position Number 1, in paragraph 2c(1) above.

(4) Enemy Positions 3 and 4. Same conditions and actions as paragraphs 2c(1)(3) above.

d. Termination of Problem. The problem will be terminated (or suspended) when any of the following conditions exist:

(1) Test Platoon leader calls team commander (INSTRUCTOR) and reports in essence, "Mission Accomplished."

(2) Test Platoon has lost four (4) tanks to enemy action.

(3) Test Platoon has lost two (2) tanks due to faulty equipment (not the fault of the operator).

(4) Test Platoon communication net is inoperative (NOT tank interphone, or operator, deficiency).

(5) At the discretion of the INSTRUCTOR, if damage to equipment (miniature tanks or terrain features) appears to be imminent.

PROBLEM I (Continued)

e. Critique. The problem will be critiqued by the INSTRUCTOR, to include a discussion of the problem by the student operators.

NOTE: None of the above will be issued to the students.

3. OPERATION ORDER (Issue MAP "B"; order will be given orally.)

a. AN ENEMY ARMOR FORCE OF CONSIDERABLE STRENGTH IS MOVING SOUTHWEST (OFF THE MAP TO THE NORTHEAST) TOWARD TOWN. SCATTERED ENEMY ADVANCE ELEMENTS HAVE BEEN REPORTED IN THE VICINITY OF THE LAKE AND WOODS "F".

b. OUR TEAM ATTACKS IN 30 MINUTES TO DENY THE ENEMY THE USE OF LIVE ROAD AS AN APPROACH FROM THE NORTHEAST INTO TOWN; 1ST AND 2D PLATOONS ABREAST, 1ST PLATOON ON THE LEFT; 3D PLATOON, FOLLOW THE 2D PLATOON. WE DO NOT HAVE ANY ARTILLERY OR MORTAR SUPPORT.

c. WE DO NOT HAVE ANY ATTACHMENTS OR DETACHMENTS.

d. 1ST PLATOON, ATTACK ON THE LEFT. YOUR MISSION IS TO DENY THE ENEMY USE OF LIVE ROAD THROUGH HILLS "C" AND "D".

e. 2D PLATOON WILL DENY THE ENEMY USE OF LIVE ROAD IN YOUR SECTOR.

f. 3D PLATOON, FOLLOW THE 2D PLATOON.

g. I WILL BE WITH THE 2D PLATOON INITIALLY.

ARE THERE ANY QUESTIONS?

THE TIME IS NOW _____ HOURS.

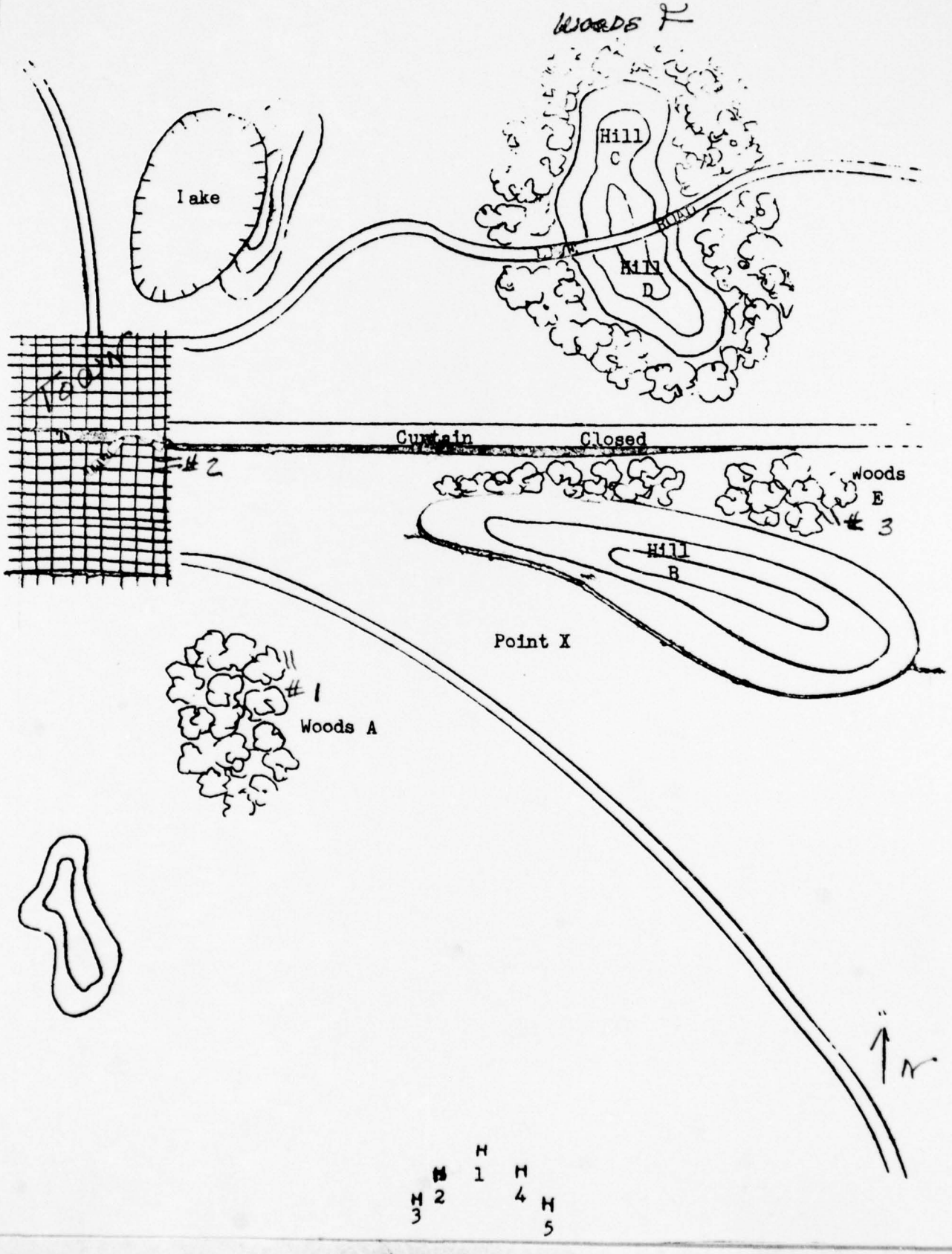
REPORT TO ME WHEN READY. WE MOVE OUT IN 15 MINUTES.

NOTE: The oral order and 5 copies of MAP "B" will be issued to Test Platoon leader by INSTRUCTOR.

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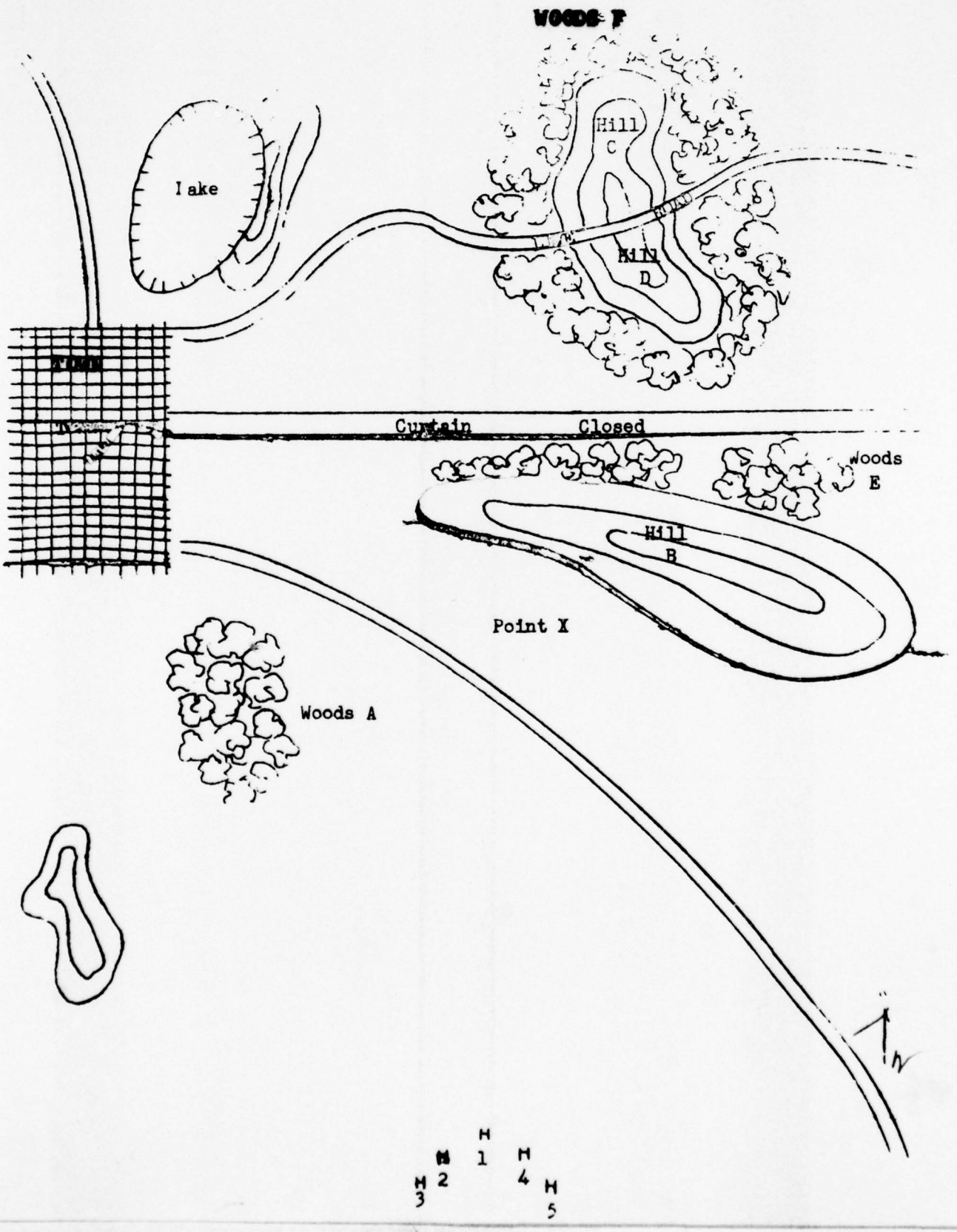
MAP A

Problem 1



MAP B

Problem 1



PROBLEM I - (Continued)

4. SOLUTION AND SCORING SHEET	Value	Score
(1) Assembles tank commanders	1	____
(2) Makes visual reconnaissance of area	1	____
(3) Makes map reconnaissance of area not visible	1	____
(4) Presents mission of platoon to TCs	1	____
(5) Issues platoon attack order, and mentions:	1	____
a. Enemy force	1	____
Strength (considerable	1	____
Direction of movement (southwest)	1	____
Composition (Armor)	1	____
Advance elements and (scattered) location (Lake and Woods "F")	1	____
b. Friendly force	1	____
Strength (TEAM)	1	____
Mission (Block enemy approach from northeast)	1	____
Time of attack (in 15 minutes)	1	____
Disposition of platoons	1	____
1st Platoon (on left)	1	____
2d Platoon	1	____
3d Platoon (follow 2d Platoon)	1	____
No supporting fire available	1	____
No attachments or detachments	1	____
Mission of 1st Platoon (deny LIVE ROAD to enemy where it passes through Hills "C" and "D")	1	____

PROBLEM I - (Continued)(Solution and Scoring Sheet)

		Value	Score
	Initial platoon formation (Wedge or Echelon left)	1	____
	Scheme for movement, "Plan for Movement"	1	____
	Report when ready	1	____
(6)	Orders some tank to reconnoiter Woods "A" by fire	1	____
(7)	Orders Town to be reconnoitered by fire	1	____
(8)	Orders Woods "E" to be reconnoitered by fire	1	____
(9)	Orders Woods "F" to be reconnoitered by fire	1	____
(10)	Occupies Hill "B" AND	1	____
	Reports in effect,"Mission Accomplished"	10	____
(11)	Moves section around either right or left of Hill "B" and secures Hill "C" or "D"	1	____
	a. Moves around flank of Hill "B"	1	____
	b. Designates manner of move	1	____
	c. Designates tanks to act as base of fire	1	____
(12)	Moves base of fire to either Hill "C" or "D"	1	____
	a. Moves around flank(s) of Hill "B"	1	____
	b. Designates manner of movement	1	____
(13)	Moves entire platoon around right or left of Hill "B" and secures Hills "C" and "D"	1	____
	a. Moves around flank(s) of Hill "B"	1	____
	b. Designates manner of movement	1	____
(14)	No enemy weapon was ordered to fire by INSTRUCTOR	5	____

PROBLEM I - (Continued)(Solution and Scoring Sheet)

		Value	Score
(15)	One enemy weapon was ordered to fire by INSTRUCTOR	3	____
(16)	Any other action taken by the platoon leader other than designated in the "Score Sheet" is worth one point for the entire action taken	1	____
(17)	Complete problem with NO tank losses	15	____
(18)	Complete problem with ONE tank loss	10	____
(19)	Complete problem with TWO tank losses	5	____
(20)	Complete problem with THREE tank losses	2	____
(21)	Complete problem with FOUR tank losses	1	____

A POSSIBLE SCORE 60

SCORE MADE ____

(22)	Deduct FIVE points from SCORE MADE if incorrect radio procedure was habitually used.	5	____

TOTAL SCORE ____

FM-17-1 Paragraphs 91 through 93, (estimate of the situation) and paragraph 273, (attack order).

FM-17-33 Paragraphs 5a, 22, 26b, 37; 38, 44b, 50a,c, 51, 62; 63, 83, 92, 93; 96b; 99b, 100,

PROBLEM II - Advance, Seize Commanding Terrain, Block Enemy Escape Route from TOWN

1. GENERAL

a. Terrain. The terrain will be emplaced as shown on attached MAP "A". The curtain will be open, so that the entire area will be visible.

b. Enemy. Enemy weapons will be located and sited as shown on MAP "A". These enemy forces will be numbered as indicated, and concealed from view. The INSTRUCTOR will control all enemy activity. Whenever the INSTRUCTOR orders an enemy weapon to fire, cracker-ball ammunition will be used in conjunction with the beam of light to alert the Test Platoon to the fact the platoon is under fire. In the event the Test Platoon attempts to attack through the TOWN, all effort will be expended to destroy each test tank after it has progressed to the approximate center of TOWN.

NOTE: INSTRUCTOR will use the wide-beam light.

The INSTRUCTOR will order enemy weapons to fire whenever the Test Platoon does NOT employ reconnaissance by fire on an area in which an enemy weapon is located. Enemy casualties will be assessed by the INSTRUCTOR in response to correct Test Platoon action.

c. Test Platoon. The Test Platoon leader, whose platoon initially is located as shown on MAPS "A" and "B", will receive an oral Operation Order and five copies of MAP "B" from the INSTRUCTOR. The Test Platoon leader will then be given 15 minutes to complete his visual and map reconnaissance, brief the tank commanders, and issue his order. The problem will be "free play" as far as the Test Platoon is concerned. Test Platoon casualties will NOT be assessed, but will occur naturally if the platoon employs incorrect, faulty, or improper tactics and techniques. All Test Platoon tanks which are knocked out due to enemy action will remain knocked out for the duration of the problem. If the Test Platoon leader's tank is destroyed, the INSTRUCTOR will appoint the Test Platoon sergeant to continue the problem; if both the platoon sergeant and platoon leader are "out of action", the INSTRUCTOR will designate a tank commander to assume command, with the resultant loss of communications to the team commander (INSTRUCTOR), but with platoon communications to the remaining tanks.

d. The Instructor. The INSTRUCTOR will be thoroughly and completely familiar with this document. In addition, the INSTRUCTOR will act as the Test Platoon team commander, and as such will respond to all calls made to him by the Test Platoon leader; however, the INSTRUCTOR will refrain from coaching the Test Platoon leader. The INSTRUCTOR will issue the oral order, five copies of MAP "B", and the order to "MOVE OUT"; but no other instructions, reference the problem, will be divulged. The order to "MOVE OUT"

will be given when the Test Platoon leader reports his platoon is ready. If the Test Platoon loses four (4) tanks to enemy action BEFORE the problem is completed, the INSTRUCTOR will appoint a new Test Platoon leader and the problem will be run again WITHOUT benefit of a critique. A critique will be conducted ONLY if the problem is completed. The ASSISTANT INSTRUCTOR will plot all Test Platoon moves on a copy of MAP "A".

2. CONCEPT OF THE PROBLEM

a. Platoon Mission. The Test Platoon's mission is to block LILLIAN ROAD and prevent the enemy from using LILLIAN ROAD as an escape route from TOWN. (See paragraph 3, OPERATION ORDER.)

b. Platoon Plan and Movement. The Test Platoon will be situated on HILL "A" (See MAP "A"); the Test Platoon leader will be given the oral Operation Order and 15 minutes to make his preparations and issue his order to his tank commanders. The Test Platoon leader will select his own platoon objective; he will be responsible for everything his platoon does, or fails to do, and will be scored accordingly. (See paragraph 4, SOLUTION AND SCORING.)

c. Enemy Action. Enemy weapons are located, sited, and concealed from the view of the Test Platoon, as shown on MAP "A". Regardless of the method of attack or combat formations employed by the Test Platoon, the INSTRUCTOR will cause the enemy guns to fire on the Test Platoon. If the Test Platoon does NOT employ reconnaissance by fire on critical areas, i.e., should the Test Platoon move to the right (east) of WOODS "Z" and does not recon WOODS"Z"by fire, enemy Gun Number 2 will be ordered to fire; if WOODS "Z" is reconnoitered by fire, enemy Gun Number 2 will be declared destroyed by the INSTRUCTOR. However, the Test Platoon leader will NOT be informed of this control action - unless after reconnoitering WOODS "Z" by fire, if a test tank notices the camouflaged gun and attacks it, then the INSTRUCTOR will inform the Test Platoon leader that the enemy gun has been destroyed, continue on mission. So, depending upon the scheme of maneuver (direction of movement), the same conditions mentioned above will exist for enemy guns 2, 3, 4, and 5.

d. Termination of Problem. The problem will be terminated (or temporarily suspended) when any of the following conditions exist.

(1) Problem terminates when:

(a) Test Platoon leader calls team commander (INSTRUCTOR) and reports in essence, "Mission Accomplished."

(b) Test Platoon has lost four (4) tanks to enemy action (See paragraph 1c above).

PROBLEM II (Continued)

(2) Problem will be suspended when:

(a) Test Platoon has lost two (2) tanks due to faulty or malfunctioning equipment (NOT the fault of the operator).

(b) Test Platoon communication net is inoperative, excluding tank interphone system, or operator deficiency.

(c) The INSTRUCTOR deems it necessary to prevent excessive damage to equipment (miniature tanks or terrain features).

NOTE: <u>None of the above information will be given to the Test Platoon personnel</u>.

PROBLEM II - (Continued)

3. OPERATION ORDER (To be issued orally to the Test Platoon leader, along with five (5) copies of Map "B")

a. AN ENEMY ARMOR FORCE OF COMPANY SIZE IS REPORTED TO BE IN TOWN.

b. OUR TEAM HAS BEEN ATTACKING NORTH ALONG BRUCE ROAD AGAINST GENERALLY LIGHT ENEMY RESISTANCE. THE ATTACK HAS BEEN HELD UP UNTIL ESCAPE ROUTES CAN BE BLOCKED. FIRST PLATOON (TEST PLATOON), YOU WILL ATTACK IN 15 MINUTES TO BLOCK LILLIAN ROAD, AND PREVENT THE ENEMY FROM USING LILLIAN ROAD AS AN ESCAPE ROUTE FROM TOWN. YOU WILL NOT HAVE ANY ARTILLERY OR MORTAR SUPPORT. YOU WILL NOT HAVE ANY ATTACHMENTS.

SECOND PLATOON WILL BLOCK EAST ROAD OFF MAP TO RIGHT.

THIRD PLATOON, BE PREPARED TO ASSIST, ON ORDER, THE FIRST OR SECOND PLATOONS.

I WILL BE WITH THE THIRD PLATOON INITIALLY.

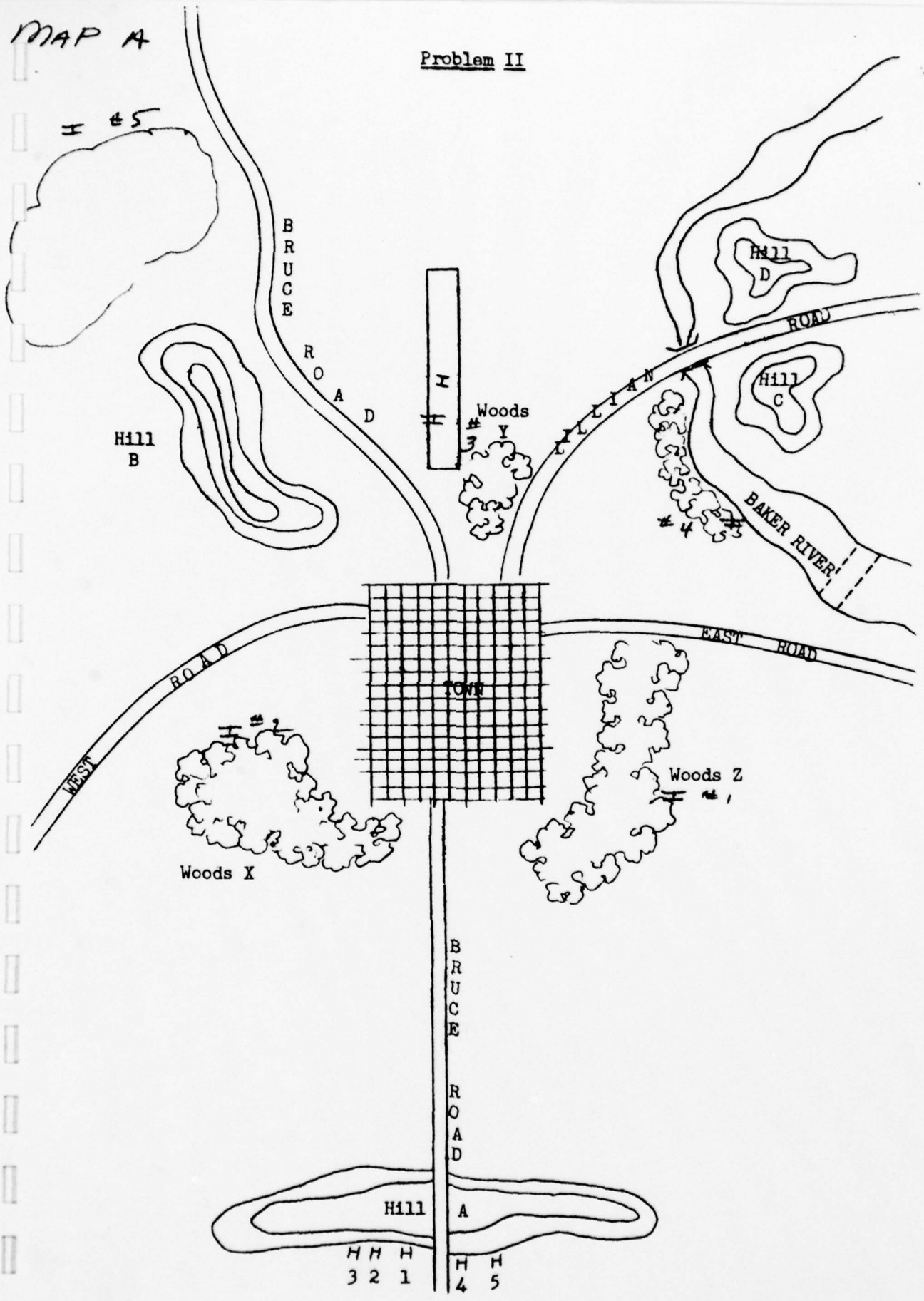
ARE THERE ANY QUESTIONS?

THE TIME IS NOW _____ HOURS.

FIRST PLATOON, REPORT TO ME WHEN READY TO MOVE.

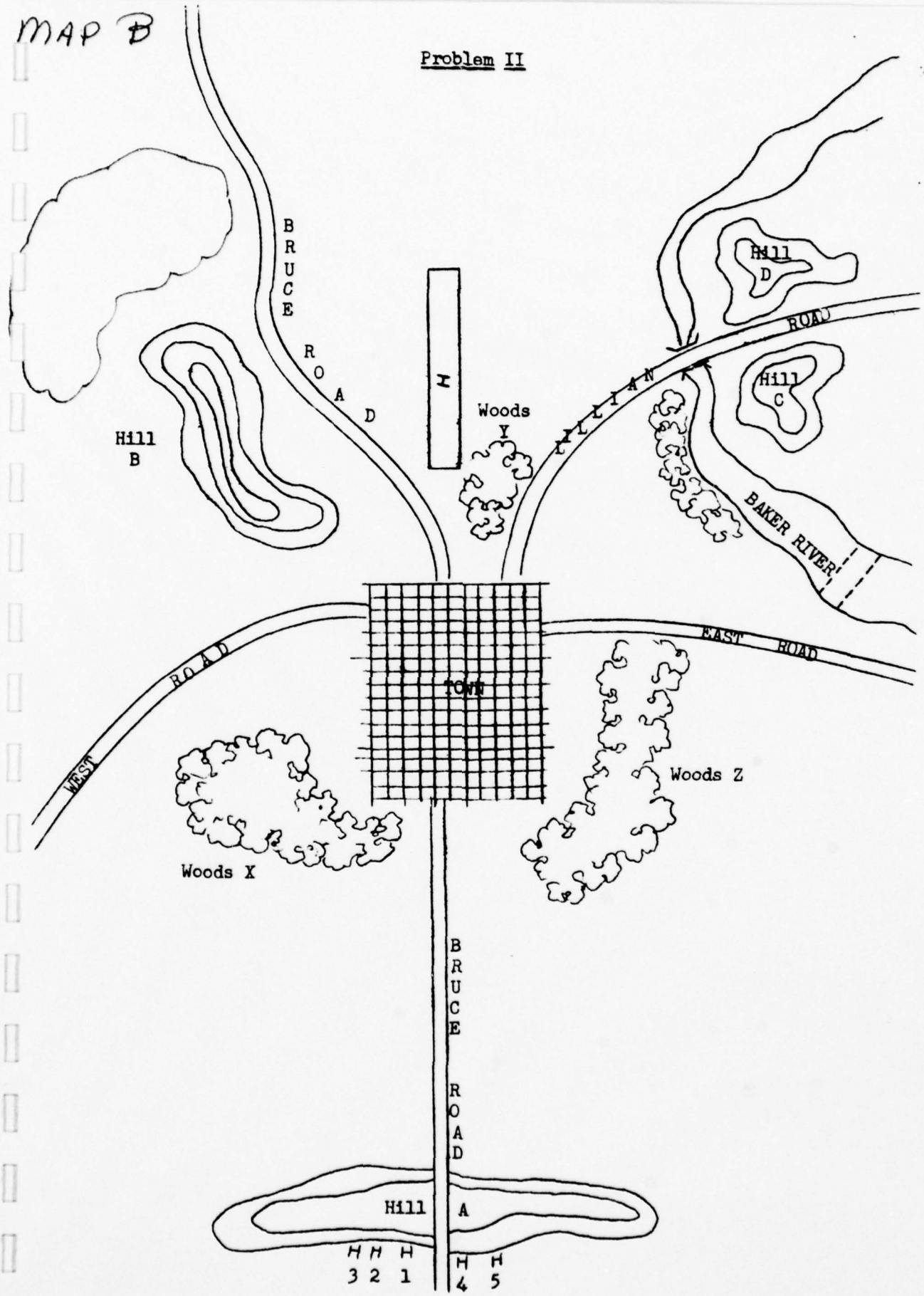
MAP A

Problem II



MAP B

Problem II



PROBLEM II - (Continued)

4. SOLUTION AND SCORING SHEET	Value	Score
(1) Assembles tank commanders	1	____
(2) Makes visual reconnaissance of area	1	____
(3) Makes a map reconnaissance of area	1	____
(4) Explains situation to tank commanders	1	____
(5) Issues platoon attack order, and mentions:	1	____
a. Enemy force	1	____
Strength (Company size)	1	____
Location (in Town)	1	____
b. Friendly force	1	____
Direction of attack (north)	1	____
Time of attack (in 15 minutes)	1	____
Mission of the platoon (block LILLIAN ROAD)	1	____
Purpose of mission (prevent enemy escape)	1	____
Disposition of 2d and 3d platoons (2d block EAST ROAD) (3d support 1st or 2d)	1	____
Fire support available (NONE)	1	____
Attachments (NONE)	1	____
Plan of attack, scheme of movement, etc.	1	____
Report when ready	1	____
(6) Some tank reconnoiters Woods "X"	1	____
(7) Some tank reconnoiters Woods "Z"	1	____
(8) Some tank reconnoiters Woods "Y"	1	____

PROBLEM II - (Continued)(Solution and Scoring Sheet)

		Value	Score
(9)	Some tank reconnoiters RIVER WOODS	2	____
(10)	Platoon leaves base of fire on Hill "A"	3	____
	a. Designates tanks to act as base of fire	1	____
	Section moves directly across ford and takes up position on Hill "C"	3	____
	1. Moves in echelon left of wedge formation	1	____
	2. Moves with guns traversed to cover exposed flank	1	____
	3. Moves around flank of Hill "A"	1	____
	4. Designates manner of movement	1	____
	b. Section moves directly across ford and takes up position on Hill "D"	2	____
	1. Moves in echelon left or wedge formation	1	____
	2. Moves with guns traversed to cover exposed flank	1	____
	3. Moves around flank of Hill "A"	1	____
	4. Designates manner of movement	1	____
(11)	Moves base of fire section across ford and takes up position on Hill "D"	3	____
	a. Moves with guns traversed to cover exposed flank	1	____
	b. Moves around flank of Hill "A"	1	____
	c. Designates manner of movement	1	____
(12)	Moves base of fire section across ford and takes up position on Hill "C"	2	____
	a. Moves with guns traversed to cover exposed flank	1	____

PROBLEM II - (Continued)(Solution and Scoring Sheet)

		Value	Score
	b. Moves around flank of Hill "A"	1	____
	c. Designates manner of movement	1	____
(13)	Moves entire platoon directly across ford	2	____
	a. Moves with guns traversed to cover exposed flank	1	____
	b. Moves around flank of Hill "A"	1	____
	c. Leading section takes position on Hill "C"	2	____
	d. Leading section takes position on Hill "D"	1	____
	e. Trailing section takes position on Hill "D"	2	____
	f. Trailing section takes position on Hill "C"	1	____
	g. Designates manner of movement across ford	1	____
(14)	Reports, "Mission Accomplished"	1	____
(15)	No enemy gun ordered to fire by INSTRUCTOR	5	____
(16)	ONE enemy gun ordered to fire by INSTRUCTOR	3	____
(17)	Any other action taken by the platoon leader other than designated in the "Score Sheet" is worth ONE point in the entire action taken	1	____
(18)	Completes problem with NO tank losses	15	____
(19)	Completes problem with ONE tank loss	10	____
(20)	Completes problem with TWO tank losses	5	____
(21)	Completes problem with THREE tank losses	2	

PROBLEM II - (Continued)(Solution and Scoring Sheet)

		Value	Score
(22)	Completes problem with FOUR tank losses	1	_____
	POSSIBLE SCORE	61	
	SCORE MADE	_____	
(23)	Deduct FIVE points from SCORE MADE if incorrect radio procedure was habitually used.	5	_____
	TOTAL SCORE	_____	

FM-17-1 Paragraphs 91 through 93, (estimate of the situation) and paragraph 273, (attack order)

FM-17-33 Paragraphs 5a, 6,22,26b, 37, 38, 41, 44b, 50, 51, 58, 60, 63, 83, 91, 92, 94, 95, 96b 99, 100

PROBLEM III - Movement Through Semi-Close Terrain; Reconnaissance by Fire; Target Designation: Control of Fire

1. GENERAL

a. Terrain. The terrain will be duplicated, in general, as shown on MAP "A"; however, location of features containing enemy weapons will be constructed and sited exactly as indicated. The curtain will be open to permit a view of the entire terrain board.

b. Enemy. The enemy will consist of five tanks and two AT guns, located and sited as shown on MAP "A". All enemy weapons will be concealed from view. None of the enemy weapons will be moved; however, they will be fired as directed by the INSTRUCTOR. ASSISTANT INSTRUCTORS will actually fire the weapons; each firing will be accompanied by "cracker-ball" ammo, which also will be fired by ASSISTANT INSTRUCTORS on order of the INSTRUCTOR. Each enemy tank will be ordered to fire by number (See MAP "A"). Enemy casualties will be assessed by the INSTRUCTOR (See paragraph 2).

c. Test Platoon. The problem begins with the Test Platoon in position and formation as shown on MAPS "A" and "B". The INSTRUCTOR will issue to the platoon leader the oral operation order (See paragraph 3) and five copies of MAP "B". The platoon leader will be given 15 minutes to complete his visual and map reconnaissance, brief his platoon, and issue his attack order. The problem will be "free play" as far as the Test Platoon is concerned. Casualties may be assessed by the INSTRUCTOR by use of his spot light; however, in general, casualties will occur naturally if the platoon leader employs faulty techniques and tactics. These casualties will come as a result of the INSTRUCTOR control of enemy weapons (See paragraph 1b above). All Test Platoon tanks destroyed by enemy action will remain out of action for the duration of the problem. In the event the platoon leader becomes a casualty, the INSTRUCTOR will appoint the platoon sergeant to take command; if both the platoon leader and platoon sergeant become casualties, the INSTRUCTOR will designate a tank commander to assume command, with the resultant loss of communications to the team commander (INSTRUCTOR), but with platoon communications to the remaining tanks.

d. The Instructor. The INSTRUCTOR will be responsible for being completely familiar with this entire document. In addition, he will act as the Test Platoon leader's team commander, and as controller of the enemy (See paragraph 1b above). He will control the firing of the AT guns in WOODS "C" and "D" from the control panel; he will control the fire of enemy tanks (See MAP "A") through his ASSISTANT INSTRUCTORS, to include activation of "cracker-ball" ammo. The INSTRUCTOR will begin the problem by conferring with the platoon leader on the floor in front of the control platform. (All other platoon personnel will be assembled behind the control platform where they cannot overhear the INSTRUCTOR, or view the terrain complex.) The INSTRUCTOR will then

orally issue the Operation Order (See paragraph 3) and five copies of MAP "B" to the platoon leader. No instructions, other than the order, will be given to the platoon leader except to clarify the intent of Operation Order if the platoon leader requests specific clarification of certain aspects within the order. The platoon leader will notify the INSTRUCTOR when ready to start the movement; the INSTRUCTOR orders "MOVE OUT." The ASSISTANT INSTRUCTOR will plot all Test Platoon moves on a copy of MAP "A". If the platoon loses four (4) tanks to enemy action before the problem is completed, the INSTRUCTOR will appoint another platoon leader and run the problem again WITHOUT benefit of a critique. A critique will be conducted only if the problem is completed. Although the Battalion Mortar Platoon will be in general support of the team, the INSTRUCTOR will deny the Test Platoon support fire, if platoon leader should request support fires--"SUPPORT FIRE NOT AVAILABLE, FIRING ANOTHER MISSION," or words to that effect.

2. CONCEPT OF THE PROBLEM

a. Platoon Mission. The mission of the platoon is to advance north, using GRIGGS ROAD as the axis of advance, and secure the far and near approaches to the bridge over FLOYD RIVER.

b. Platoon Movement. The platoon will be located as shown on MAPS "A" and "B". The platoon will move as directed by the platoon leader. He employs any formation or method of advance he chooses. He will be responsible for all his platoon does or fails to do.

c. Enemy Action. Enemy action will be controlled by the INSTRUCTOR through his ASSISTANT INSTRUCTORS. If the platoon (or individual tanks thereof) fail to reconnoiter any feature harboring an enemy weapon, the enemy weapon will fire at the offending tank as it exposes its flank to the concealed enemy gun. If, however, any feature hiding any enemy weapon is reconnoitered by fire, the enemy gun will be assessed as "dead", even if in the process of firing. What happens will happen naturally. No enemy tanks will be moved. "Cracker-ball" ammo will be employed by the ASSISTANT INSTRUCTORS to alert the Test Platoon that they are under fire.

d. Termination of Problem.

(1) Problem terminates when:

(a) Test Platoon leader informs team commander (INSTRUCTOR), "Mission Accomplished," or words to that effect.

(b) Test Platoon has lost four (4) tanks to enemy action.

PROBLEM III (Continued)

(2) Problem will be suspended when:

(a) Test Platoon has lost two (2) tanks due to faulty equipment (NOT the fault of the operator).

(b) Test Platoon communications net is inoperative, excluding tank interphone or operator deficiency.

(c) INSTRUCTOR deems it necessary to prevent excessive damage to equipment (miniature tanks or terrain features).

NOTE: None of the above information will be given to the Test Platoon personnel.

3. OPERATION ORDER (To be issued orally to the Test Platoon leader, along with five (5) copies of MAP "B")

a. AN ENEMY FORCE, STRONG IN ARMOR, IS REPORTED MOVING SOUTH ALONG GRIGGS ROAD. THIS ENEMY FORCE IS MOVING SLOWLY, AND IS ABOUT 20 MILES NORTH OF FLOYD RIVER (OFF THE MAP). HOWEVER, AT DUSK LAST NIGHT, AN ENEMY ARMOR FORCE ESTIMATED AT PLATOON STRENGTH WAS OBSERVED JUST NORTH OF FLOYD RIVER BY AN ARMY AIR OBSERVATION PLANE. THIS MORNING, FRIENDLY AIR RECONNAISSANCE REPORTS NO SIGHTING, OR TRACE, OF THIS ENEMY PLATOON ANYWHERE IN THE AREA.

b. OUR TEAM IS MOVING NORTH, THREE PLATOONS ON LINE, WITH THE MISSION OF SECURING CROSSING SITES OVER THE FLOYD RIVER.

1ST PLATOON IN THE CENTER
2D PLATOON ON THE LEFT (WEST)
3D PLATOON ON THE RIGHT (EAST)

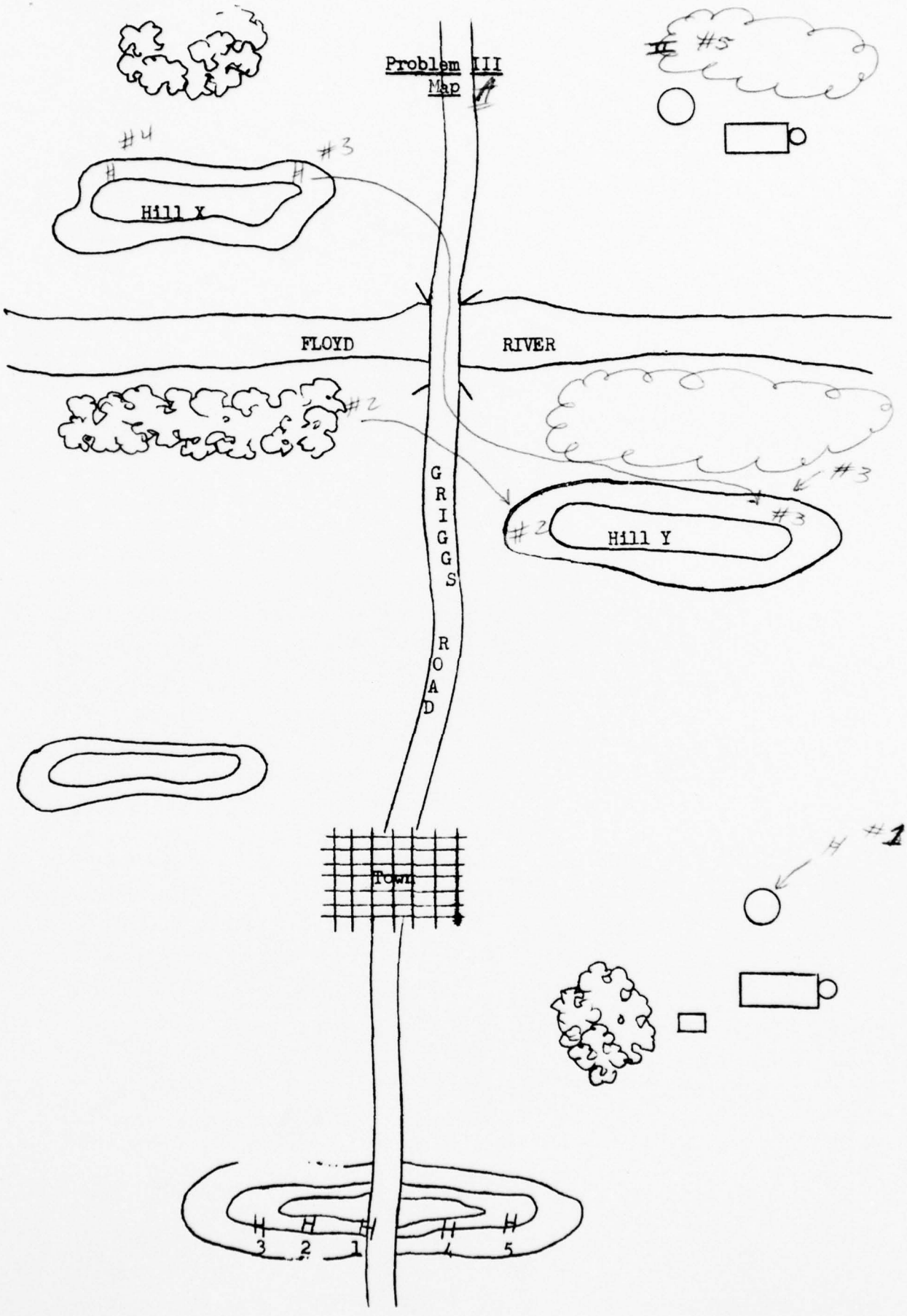
FIRST PLATOON, YOU WILL ATTACK IN 15 MINUTES, WITH THE MISSION OF SECURING THE FAR AND NEAR APPROACHES TO THE BRIDGE OVER FLOYD RIVER. THE BATTALION MORTAR PLATOON WILL BE IN GENERAL SUPPORT OF OUR TEAM. YOU WILL NOT HAVE ANY ATTACHMENTS.

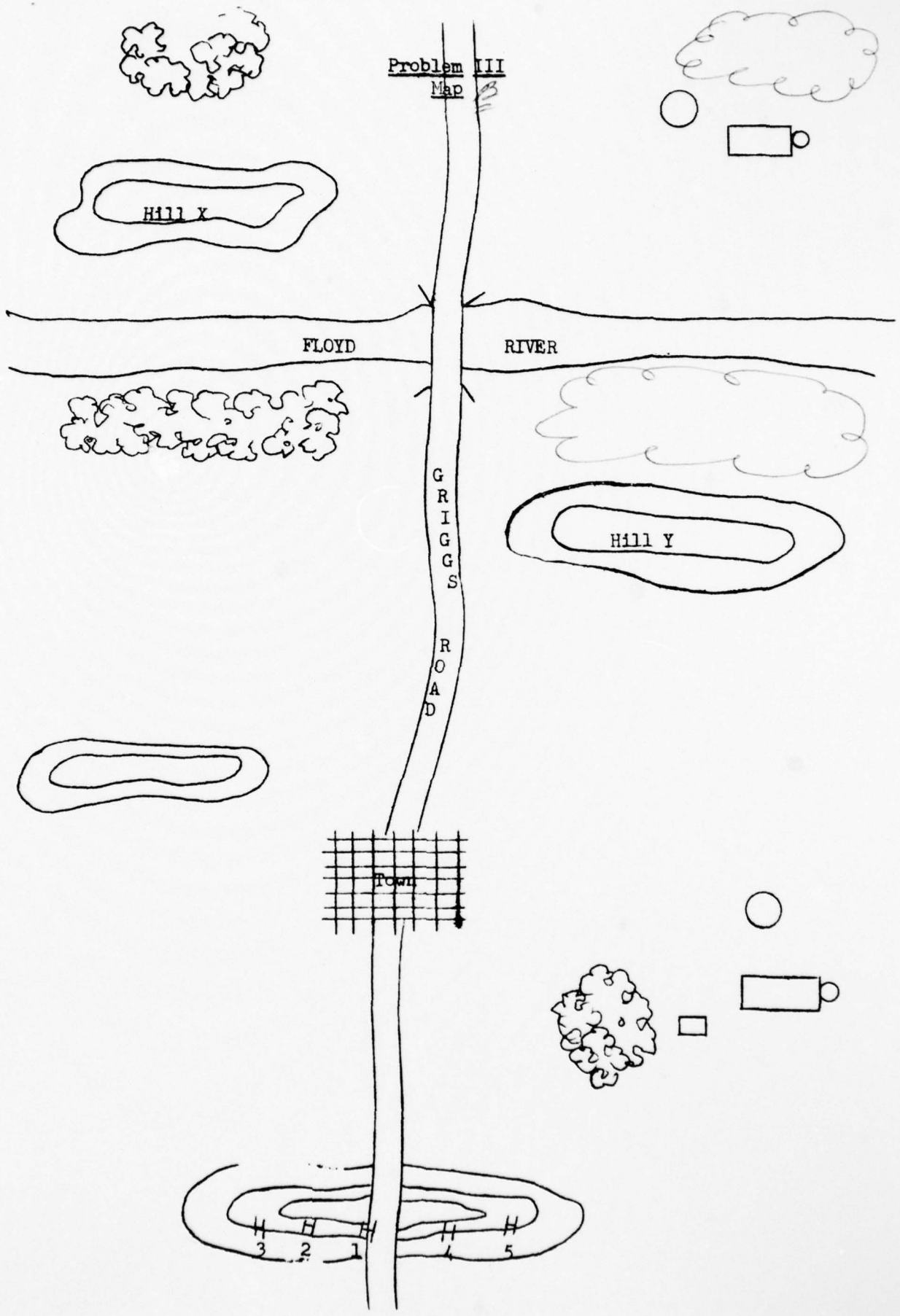
c. I WILL BE WITH THE 1ST PLATOON INITIALLY.

ARE THERE ANY QUESTIONS?

THE TIME IS NOW _____ HOURS.

REPORT WHEN YOU ARE READY TO MOVE.


Problem III
Map
#5
#4
#3
Hill X
FLOYD
RIVER
#2
GRIGGS ROAD
#3
#3
#2
Hill Y
Town
#1
3
2
1
4
5


Problem III
Map B
Hill X
FLOYD
RIVER
GRIGGS ROAD
Hill Y
Town
3
2
1
4
5

PROBLEM III - (Continued)

4. SOLUTION AND SCORING	Value	Score
(1) Assembles tank commanders	1	_____
(2) Makes visual reconnaissance of area	1	_____
(3) Makes map reconnaissance of area	1	_____
(4) Explains situation to tank commanders	1	_____
(5) Issues platoon attack order, and mentions	1	_____
(a) Enemy force	1	_____
Strength (Armor platoon)	1	_____
Previous location (North of FLOYD RIVER)	1	_____
Present location (unknown)	1	_____
(b) Friendly force	1	_____
Platoon mission (Secure both approaches to bridge)	1	_____
Platoon position in the attack, (center)	1	_____
Fire support (Battalion Mortar Platoon in General Support)	1	_____
Attachments (NONE)	1	_____
Scheme (plan) of movement and attack	1	_____
Report when ready	1	_____
(6) Moved from column into wedge formation	2	_____
(7) Moved from column into line formation	1	_____
(8) Continued in column up GRIGGS ROAD	½	_____
(9) Moved toward objective in wedge formation, reconnoitering by fire as he goes	4	_____

PROBLEM III - (Continued)(Solution and Scoring)		Value	Score
(10)	Moved toward objective in line formation, reconnoitering by fire as he goes	3	____
(11)	Moved toward objective by bounds, either in line or loose wedge	2	____
	(a) Designates manner of movement	1	____
(12)	Moved toward objective in column	1	____
(13)	Reconnoitered by fire WOODS "A"	1	____
(14)	Reconnoitered by fire WOODS "B"	1	____
(15)	Reconnoitered by fire WOODS "C"	1	____
(16)	Reconnoitered by fire HOUSE NR 1	1	____
(17)	Reconnoitered by fire BARN "E"	1	____
(18)	Reconnoitered by fire BARN "F"	1	____
(19)	Reconnoitered by fire HOUSE NR 2	1	____
(20)	Reconnoitered by fire WOODS "H"	1	____
(21)	Reconnoitered by fire WOODS "D"	1	____
(22)	Reconnoitered by fire HOUSE NR 3	1	____
(23)	Reconnoitered by fire BARN "G"	1	____
(24)	Reconnoitered by fire all HAYSTACKS in FIELD "X"	2	____
(25)	Reconnoitered by fire all HAYSTACKS in FIELD "Y"	2	____
(26)	Reconnoitered by fire all HAYSTACKS in FIELD "Z"	2	____
(27)	Gave orders for section on right to reconnoiter by fire everything to their right and right front	1	____
(28)	Gave orders for section on left to reconnoiter by fire everything to their left and left front	1	____
(29)	Alerted his crew to observe and reconnoiter by fire to the front and sides	1	____

PROBLEM III - (Continued)(Solution and Scoring)		Value	Score
(30)	Moves platoon to HILL "Y"	2	____
(31)	Sends one section to HILL "Y"	1	____
	(a) Designates manner of movement	1	____
(32)	Sends one section to HILL "X"	1	____
	(a) Designates manner of movement	1	____
(33)	Reports MISSION ACCOMPLISHED	1	____
(34)	Any other action taken by the platoon leader besides that designated on the Score Sheet is worth one point for the entire action taken	1	____
(35)	Completes the problem with NO tank losses	15	____
(36)	Completes the problem with ONE tank loss	10	____
(37)	Completes the problem with TWO tank losses	5	____
(38)	Completes the problem with THREE tank losses	2	____
(39)	Completes the problem with FOUR tank losses	1	____
	POSSIBLE SCORE 62		
	SCORE MADE _____		
(40)	Deduct five (5) points from SCORE MADE if incorrect radio procedure was habitually used.	5	____
	TOTAL SCORE _____		

FM-17-1 Paragraphs 91 through 93, (estimate of the situation) and paragraph 273, (attack order) and 281.

FM-17-33 Paragraphs 5a, 6, 22, 26b, 37, 38, 41, 44b, 49, 51, 58, 60, 83, 91, 92, 94, 95, 96b, 99, 100.

PROBLEM IV - Advance Against Scattered but Mutually Supporting Enemy Forces; Using Terrain to the Best Advantage; Attack and Seize the Critical Terrain

1. GENERAL

a. Terrain. The terrain will be emplaced as shown on MAP "A". The curtain will be open to permit a view of the entire terrain board. WOODS "S" and "X" must permit passage of tanks.

b. Enemy. The enemy will consist of five (5) tanks and two AT guns, located and sited as shown on MAP "A". The two enemy tanks on HILLS "O" and "H", respectively, will be in firing positions and will be moved as required (See paragraph 2). Each enemy tank will be ordered to fire and move as directed by the INSTRUCTOR, who will use tank number as identification (See MAP "A"). The two AT guns located in BARNS "A" and "B" will be fired by the INSTRUCTOR from his control panel. Enemy casualties will be assessed by the INSTRUCTOR, in addition to those which may occur due to Test Platoon action. "Cracker-ball" ammo will be used as directed by the INSTRUCTOR to indicate enemy fire on the Test Platoon.

c. Test Platoon. The problem begins with the Test Platoon in position and formation (line) as shown on MAPS "A" and "B". The INSTRUCTOR will issue to the platoon leader the oral Operation Order (See paragraph 3) and five copies of MAP "B". The platoon leader will then be given 15 minutes to complete his reconnaissance (visual and map), brief his platoon, and issue his platoon attack order. The problem will be "free play" as far as the Test Platoon is concerned. Casualties may be assessed by the INSTRUCTOR with the use of his spot light; however, in general, casualties will occur naturally if the platoon leader employs faulty techniques and tactics. (These casualties will come as a result of INSTRUCTOR control of enemy weapons--See paragraph 1b above). All Test Platoon tanks destroyed by enemy action will remain out of action for the duration of the problem. In the event the platoon leader becomes a casualty, the INSTRUCTOR will appoint the platoon sergeant to take command; if both the platoon leader and platoon sergeant become casualties, the INSTRUCTOR will designate a tank commander to assume command, with the resultant loss of communications to the team commander (INSTRUCTOR--See paragraph 1d), but retaining communications over the platoon net with the remaining tanks.

NOTE: The INSTRUCTOR (team commander) will not respond to any calls from any tank other than the platoon leader and platoon sergeant tanks.

d. The Instructor. The INSTRUCTOR will be responsible for being completely familiar with this entire document. In addition, the INSTRUCTOR will act as the Test Platoon team commander, and as controller of the enemy (See paragraph 1b above). The INSTRUCTOR

will control the firing of the enemy AT guns in BARNS "A" and "B" from his control panel; he will also control the firing of SMOKE, which will be pre-set on HILLS "O" and "L". Enemy tanks on HILLS "H" and "O" will be operated by ASSISTANT INSTRUCTORS and will move and fire as directed by the INSTRUCTOR. (See MAP "A".) ASSISTANT INSTRUCTORS will also provide "cracker-ball" ammunition for both friendly fire support and enemy fire, as directed by the INSTRUCTOR. The INSTRUCTOR will begin the problem by conferring with the platoon leader on the floor in front of the control platform. (All other Test Platoon personnel will be assembled behind the control platform where they cannot overhear the INSTRUCTOR, or view the terrain complex.) The INSTRUCTOR will then orally issue the Operation Order (See paragraph 3) and five (5) copies of MAP "B" to the platoon leader. No instructions, other than the order, will be given to the platoon leader, except to clarify the intent of the Operation Order if the platoon leader requests specific clarification of certain aspects within the Order. The platoon leader will notify the INSTRUCTOR when ready to start the movement; the INSTRUCTOR orders "MOVE OUT." The ASSISTANT INSTRUCTOR will plot all Test Platoon moves on a copy of MAP "A". If the Test Platoon loses four (4) tanks to enemy action BEFORE the problem is completed, the INSTRUCTOR will appoint another platoon leader and run the problem again WITHOUT benefit of a critique, after renewing the SMOKE charges on HILLS "O" and "L" if necessary. A critique will be conducted ONLY if the problem is completed.

2. CONCEPT OF THE PROBLEM

a. Platoon Mission. The mission of the platoon is to advance north, seize and hold HILLS "O" and "L".

b. Platoon Movement. The platoon will be located as shown on MAPS "A" and "B". The platoon will move as directed by the platoon leader. He will employ any combat formation and method of movement he desires.

c. Enemy Action. Enemy action will be controlled by the INSTRUCTOR through the ASSISTANT INSTRUCTORS. Regardless of the Test Platoon formation, or method of movement, if the platoon fails to reconnoiter enemy occupied positions AND exposes the flanks of tanks to the enemy AT guns, the INSTRUCTOR will fire the AT guns thus ignored (using "cracker-ball" ammo to alert the platoon to the fact they are being fired upon) and attempt to knock out the offending tanks. If the platoon leader returns this fire, the INSTRUCTOR will cease firing the AT guns and assess the enemy weapon as destroyed. If the Test Platoon moves right (east), enemy tanks 1 and 2 on HILL "H" will be ordered to fire. If the Test Platoon calls for artillery on HILL "H", or sets up a base of fire section and maneuvers toward HILL "H", the INSTRUCTOR will order enemy tanks 1 and 2 to move back to

PROBLEM IV - (Continued)

HILL "L". (Test Platoon tanks have an opportunity to kill these enemy tanks and vice versa). If the Test Platoon moves left (west), enemy tanks on HILL "O" will be ordered to fire, and enemy tanks on HILL "H" will be moved back to HILL "L" (SEE MAP "A"). The Test Platoon can smoke both HILL "O" and "L". If the Test Platoon is EAST (right) and uses smoke and attacks HILL "L", the enemy will depart HILLS "O" and "L": if the platoon is WEST (left) and uses smoke and attacks HILL "O", the enemy will depart HILLS "O" and "L"; however, if he attacks HILL "L" from the left (west), or HILL "O" from the right (east), the INSTRUCTOR will knock out sufficient Test Platoon tanks to cause the problem to be terminated by causing the enemy tanks, across whose front the maneuver element must pass, to move to the ends of the HILLS, out of the smoke, and place flanking fire on the maneuver element.

d. Termination of the Problem.

(1) Problem terminates when:

(a) Test Platoon leader informs team commander (INSTRUCTOR) "Mission Accomplished."

(b) Test Platoon has lost four (4) tanks to enemy action.

(2) Problem will be suspended when:

(a) Test Platoon has lost two (2) tanks due to faulty equipment (NOT fault of operator).

(b) Test Platoon communications net is inoperative, excluding tank interphone or operator deficiency.

(c) INSTRUCTOR deems it necessary to prevent excessive damage to equipment (miniature tanks or terrain features).

3. OPERATION ORDER (To be issued orally to the Test Platoon leader, along with five (5) copies of MAP B).

a. AN ENEMY ARMOR FORCE IS CONDUCTING A DELAYING ACTION, USING HALL ROAD AS THEIR AXIS OF MOVEMENT TO THE NORTH. FRIENDLY AIR RECONNAISSANCE REPORTS TWO (2) ENEMY TANKS ON HILL "H" AND TWO (2) ENEMY TANKS ON HILL "O". NO OTHER ENEMY WAS SEEN.

b. OUR TEAM HAS BEEN ATTACKING NORTH AGAINST SCATTERED, BUT ORGANIZED, RESISTANCE. WE ARE TO CONTINUE TO PLACE PRESSURE ON THE ENEMY, TO GIVE HIM NO TIME TO CONSOLIDATE A DEFENSIVE POSITION. TO ACCOMPLISH OUR MISSION, OUR TEAM WILL ATTACK IN 15 MINUTES WITH THREE PLATOONS ABREAST.

PROBLEM IV - (Continued)

1ST PLATOON ON THE RIGHT (EAST)
2D PLATOON ON THE LEFT (WEST OFF MAP)
3D PLATOON IN THE CENTER (OFF MAP TO THE WEST)

FIRST PLATOON, YOUR MISSION IS TO ATTACK NORTH, USING HALL ROAD AS YOUR AXIS OF ADVANCE, TO SEIZE AND HOLD HILLS "O" AND "L". BE PREPARED TO CONTINUE THE ADVANCE ON ORDER.

BATTALION MORTAR PLATOON WILL BE IN GENERAL SUPPORT OF OUR TEAM, BUT YOU WILL NOT HAVE ANY ATTACHMENTS.

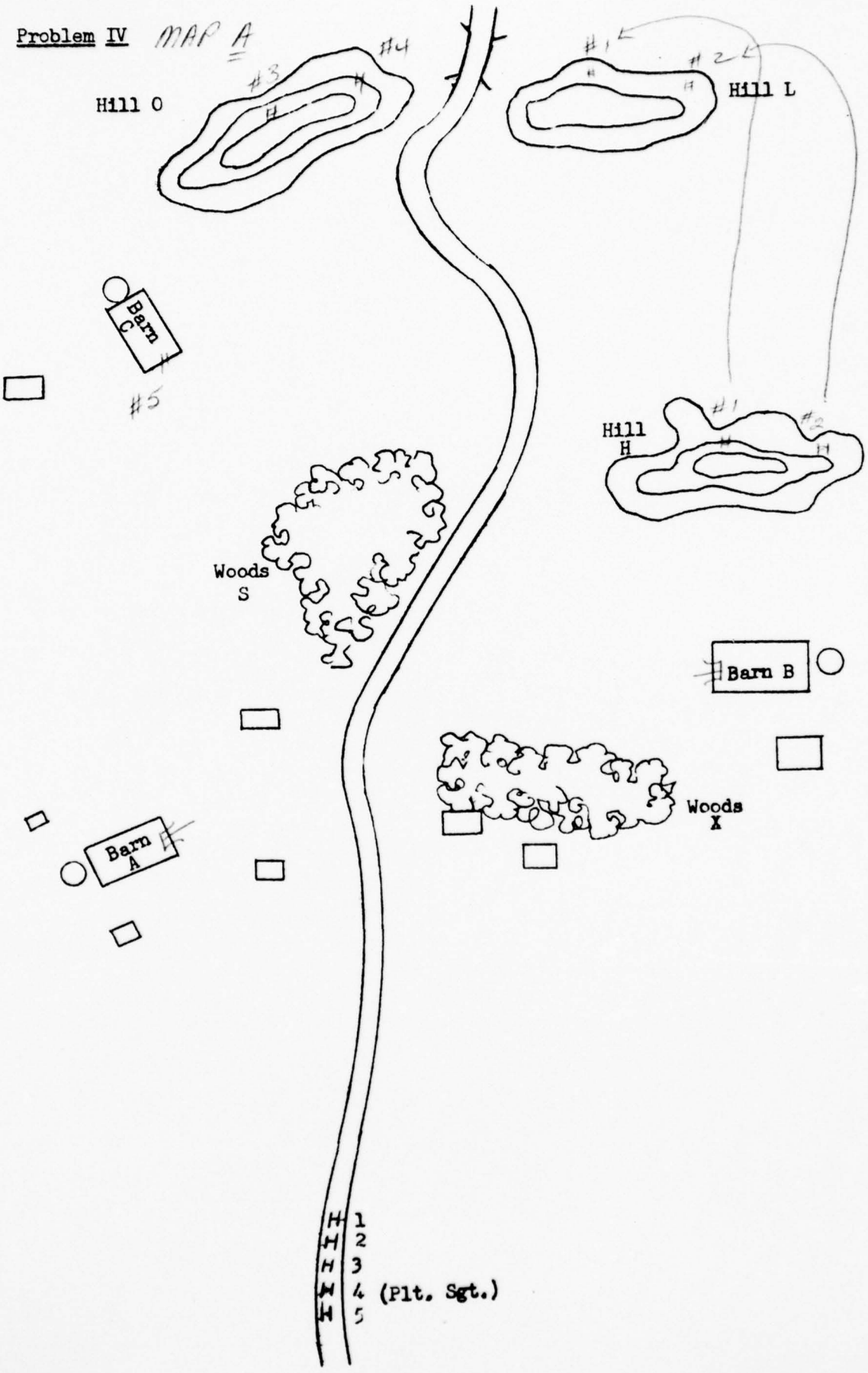
c. I WILL BE WITH THE 2D PLATOON INITIALLY.

ARE THERE ANY QUESTIONS?

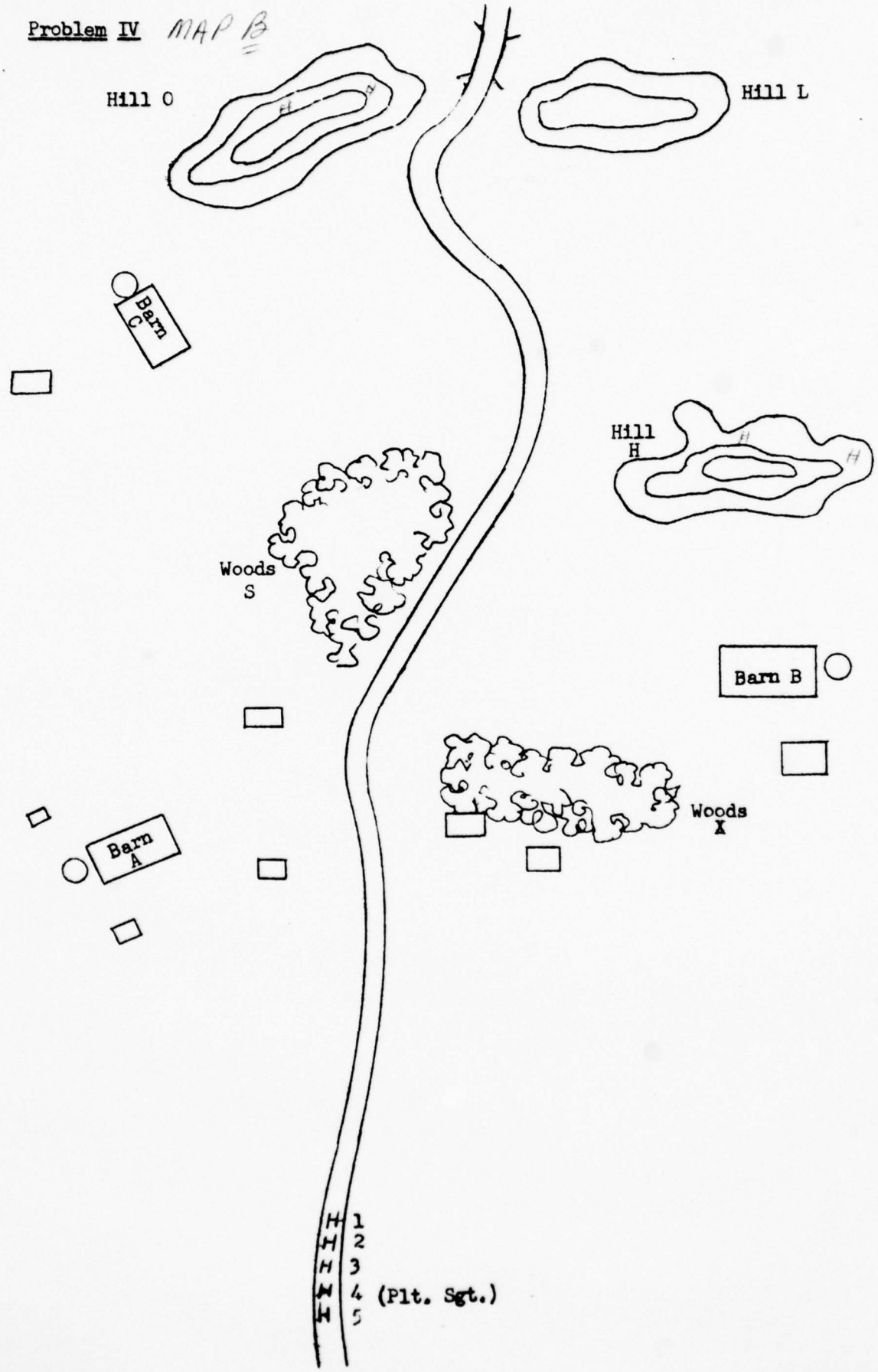
THE TIME IS NOW _____ HOURS.

REPORT WHEN YOU ARE READY TO MOVE.

Problem IV MAP A



Problem IV MAP B



PROBLEM IV - (Continued)	Value	Score
4. SOLUTION AND SCORING		
(1) Assembles tank commanders	1	____
(2) Makes visual reconnaissance of area	1	____
(3) Makes map reconnaissance of area	1	____
(4) Explains situation to tank commanders	1	____
(5) Issues platoon attack order, and mentions	1	____
(a) Enemy force	1	____
Strength (platoon - or 4 tanks)	1	____
Location (2 tanks on HILLS "O" and "H" respectively)	1	____
Nature of action (Scattered but organized)	1	____
(b) Friendly force	1	____
Platoon mission (seize and hold HILLS "O" and "L")	1	____
Platoon position in team attack (Center)	1	____
Fire support (Battalion Mortar Platoon - priority of fires)	1	____
Attachments (NONE)	1	____
Scheme (Plan) of attack	1	____
Report when ready	1	____
(6) Moves into line or wedge formation	1	____
(7) Reconnoitered by fire BARN "A"	1	____
(8) Reconnoitered by fire WOODS "X"	1	____
(9) Reconnoitered by fire BARN "B"	1	____
(10) Reconnoitered by fire WOODS "S"	1	____
(11) Reconnoitered by fire BARN "C"	1	____

PROBLEM IV - (Continued)(Solution and Scoring)	Value	Score
(12) Moves entire platoon along left flank around BARN "A"	6	____
(13) Moves entire platoon around BARN "C" to attack HILL "O"	4	____
(a) Leaves base of fire at WOODS "X"	6	____
1. Designates tanks as base of fire	1	____
2. Designates manner of movement	1	____
(b) Moves section to HILL "O"	1	____
1. Moves around left flank of BARN "C"	1	____
2. Designates manner of movement	1	____
(c) Requests supporting fire on HILL "O"	1	____
(d) Requests SMOKE on HILL "L"	1	____
(e) Requests supporting fire on HILL "L"	1	____
(f) Lifts supporting fire on reaching HILL "O"	1	____
(g) Orders base of fire, CEASE FIRE	1	____
(h) Moves base of fire from WOODS "S" to HILL "O"	1	____
1. Moves around left flank of BARN "C"	1	____
2. Designates manner of movement	1	____
(14) Sets up base of fire in WOODS "X"	1	____
(a) Designates manner of movement	1	____
(b) Designates tanks to act as base of fire	1	____

PROBLEM IV - (Continued)(Solution and Scoring)	Value	Score
(15) Moves section around BARN "B" to HILL "H"	2	____
(a) Requests supporting fire on HILL "H"	1	____
(b) Designates manner of movement	1	____
(c) Lifts supporting fire on reaching HILL "H"	1	____
(d) Orders base of fire, CEASE FIRE	1	____
(16) Moves base of fire from WOODS "X" to HILL "H"	1	____
(a) Moves around right flank of BARN "B"	1	____
(b) Designates manner of movement	1	____
(17) Moves maneuver section to HILL "L"	1	____
(a) Requests supporting fire on HILL "L"	1	____
(b) Designates tanks to act as base of fire	1	____
(c) Requests SMOKE on HILL "O"	1	____
(d) Requests supporting fire on HILL "O"	½	____
(e) Moves around right flank of HILL "H"	1	____
(f) Designates manner of movement	1	____
(g) Lifts supporting fore on HILL "L"	1	____
(h) Shifts base of fire to HILL "O"	1	____
(i) Shifts supporting fire to HILL "O"	1	____
(18) Moves section from HILL "L" to HILL "O"	1	____
(a) Designates manner of movement	1	____

PROBLEM IV - (Continued)(Solution and Scoring)		Value	Score
	(b) Lifts supporting fire on reaching HILL "O"	1	____
	(c) Orders base of fire, CEASE FIRE	1	____
(19)	Moves base of fire from HILL "H" to HILL "O"	1	____
	(a) Designates manner of movement	1	____
(20)	Reports to team commander, MISSION ACCOMPLISHED	1	____
(21)	NO enemy gun ordered to fire by the INSTRUCTOR	5	____
(22)	ONE enemy gun ordered to fire by the INSTRUCTOR	3	____
(23)	Any other action taken by the platoon leader besides those indicated on the Scoring Sheet is worth one point for the entire action	1	____
(24)	Completes problem with NO tank losses	15	____
(25)	Completes problem with ONE tank loss	10	____
(26)	Completes problem with TWO tank losses	5	____
(27)	Completes problem with THREE tank losses	2	____
(28)	Completes problem with FIVE tank losses	1	____
	POSSIBLE SCORE	71	
	SCORE MADE	____	
(29)	Deduct five (5) points from SCORE MADE if incorrect radio procedure was habitually used.		
	TOTAL SCORE	____	

FM-17-1 Paragraphs 91 through 93, (estimate of the situation) Paragraph 273, (attack order) and 281.

FM 17-33 Paragraphs 5a, 6, 22, 26b, 37, 38, 39, 40, 41, 44b, 49, 51, 58, 60, 83, 91, 92, 94, 95, 96b, 99, 100.

PROBLEM V - Operation in Open Terrain; Enemy Occupies Commanding Terrain; Both Enemy Flanks are Secured by Natural Obstacles and Mines; Drive Enemy From Commanding Terrain

1. GENERAL

a. Terrain. The terrain will be emplaced as shown on MAP "A". HILLS "X" and "Y" will be inaccessible to tanks. The road will be mined from where the two destroyed tanks are located to a position due left of HILL "E". The curtain will be open to permit a view of the entire terrain board.

b. Enemy. Two enemy tanks and two AT guns will be located on HILL "F". All enemy movements and firing action will be controlled by the INSTRUCTOR. The two enemy tanks will be operated by ASSISTANT INSTRUCTORS; the two AT guns will be fired by the INSTRUCTOR; the enemy mines on the ROAD will be fired by the INSTRUCTOR when any Test Platoon tank crosses the ROAD where the ROAD is mined. The enemy tanks are mobile, the AT guns are stationary. Enemy casualties may be assessed by the INSTRUCTOR; others may occur naturally as platoon takes proper action.

c. Test Platoon. The problem begins with the Test Platoon located as shown on MAPS "A" and "B". The INSTRUCTOR will issue to the platoon leader the oral Operation Order and five (5) copies of MAP "B". The platoon leader will be given 15 minutes to complete his visual and map reconnaissance, brief his tank commanders, and issue his platoon attack order. The problem will be "free play" as far as the Test Platoon is concerned. Casualties may be assessed by the INSTRUCTOR with use of his spotlight, if the Test Platoon attempts a frontal assault on HILL "F" (NOTE: Frontal assault not to be confused with frontal attack); and when Test Platoon tanks activate mines laid on ROAD. All Test Platoon tanks destroyed by enemy action, or the INSTRUCTOR, will remain out of action for the duration of the problem. In the event the platoon leader becomes a casualty, the INSTRUCTOR will appoint the platoon sergeant to take command; if both the platoon leader and platoon sergeant become a casualty, the INSTRUCTOR will designate a tank commander to assume command, with the resultant loss of communications to the team commander (INSTRUCTOR), but with platoon communications to the remaining tanks.

d. The Instructor. The INSTRUCTOR will be responsible for being completely familiar with this entire document. In addition, he will act as the platoon leader's team commander, and as controller of the enemy. He will control the enemy AT guns and the enemy mined ROAD from his control panel. He will order the enemy tanks to fire and to change position. He will answer all

calls from the Test Platoon leader, and will cause ASSISTANT INSTRUCTORS to fire "cracker-balls" to simulate enemy tank fire and artillery fire. He will activate the smoke on HILL "F", if platoon leader requests it, from the control panel. The INSTRUCTOR will begin the problem by conferring with the platoon leader on the floor in front of the control platform. (All other platoon personnel will be assembled behind the control platform where they cannot overhear the INSTRUCTOR and platoon leader.) The INSTRUCTOR will then orally issue the Operation Order (See paragraph 3) and five copies of MAP "B". No instructions other than the order will be given to the platoon leader. No coaching is permitted. The platoon leader will notify the INSTRUCTOR when he is ready to begin. The INSTRUCTOR orders "MOVE OUT." The ASSISTANT INSTRUCTOR will plot all Test Platoon moves on a copy of MAP "A". If a platoon loses four (4) tanks to enemy action (or are knocked out by the INSTRUCTOR'S spot light because of faulty equipment) BEFORE the problem is completed, the INSTRUCTOR will appoint another platoon leader, replace activated mines and smoke element (if necessary), and run the problem again WITHOUT benefit of a critique. A critique will be conducted ONLY if a problem is completed. HILL "F" is the only terrain feature where smoke is available, and only ONE smoke mission will be fired. (Artillery fire is available on all terrain features.) So, if the platoon leader requests smoke on HILL "F", the INSTRUCTOR will inform the platoon leader, "SMOKE ON HILL "F" FOR ONLY ONE FIRE MISSION; THE SCREEN CANNOT BE SUSTAINED, SO FIRE IT WHEN YOU WANT IT, BUT TAKE FULL ADVANTAGE OF THE SMOKE YOU GET IMMEDIATELY", or words to that effect.

2. CONCEPT OF THE PROBLEM

a. Platoon Mission. The mission of the Test Platoon is to force the enemy off HILL "F". (See paragraph 3, OPERATION ORDER.)

b. Platoon Movement. The platoon will be situated as shown on MAPS "A" and "B". The platoon will move as directed by the platoon leader. The ROAD is mined with enemy mines and two friendly tanks are blocking the road, having been destroyed by mines. The RIVER SEINE is a dry-bed river, permitting tanks to take hull defiladed positions. Platoon movement will be dependent entirely upon the initiative displayed by the platoon leader, and he will be responsible for all that the platoon does or fails to do.

c. Enemy Action. Enemy action will be controlled by the INSTRUCTOR and ASSISTANT INSTRUCTORS. The two AT guns on HILL "F" will be fired by the INSTRUCTOR, as will the detonation of mines on ROAD. The two tanks on HILL "F" will be moved and fired by ASSISTANT INSTRUCTORS on order of the INSTRUCTOR. All enemy fire will be augmented by the use of "cracker-ball" ammo

fired by ASSISTANT INSTRUCTORS. Enemy tanks and AT guns will be ordered to retreat (move off HILL "F") if the Test Platoon leader assaults the HILL around either, or both, flanks. If the Test Platoon frontally assaults HILL "F", the enemy tanks will be ordered to move back off the hill crest and lay in wait for the Test Platoon tanks to expose themselves on the crest. The INSTRUCTOR will cause test tanks which expose their "bellies" to be destroyed by use of the spot light.

d. Termination of Problem. The problem will be terminated (or temporarily suspended) when any of the following conditions exist:

(1) Problem terminates when:

(a) Test Platoon leader calls team commander (INSTRUCTOR) and reports, in essence, "Mission Accomplished."

(b) Test Platoon has lost four (4) tanks to enemy action.

(2) Problem will be suspended when:

(a) Test Platoon has lost two (2) tanks due to faulty or malfunctioning equipment (NOT the fault of the operator).

(b) Test Platoon communications net is inoperative, excluding tank interphone or operator deficiency.

(c) INSTRUCTOR deems it necessary to prevent excessive damage to equipment (miniature tanks or terrain features).

NOTE: None of the above information will be given to the Test Platoon personnel.

3. OPERATION ORDER (To be issued orally to the Test Platoon leader, along with five (5) copies of Map B)

a. AN ENEMY ARMOR FORCE OF BATTALION SIZE HAS BEEN RETREATING NORTH FOR SEVERAL DAYS BEHIND A STRONG DELAYING ELEMENT. HE HAS NOW OCCUPIED PREPARED DEFENSIVE POSITIONS. FOR EXAMPLE, YOU CAN SEE TWO FRIENDLY TANKS ON ROAD WHICH WERE LOST TO ENEMY EMPLACED MINES. WOODS "A" AND "C" AND HILLS "B" AND "E" ARE NOT OCCUPIED BY THE ENEMY. HOWEVER, TWO ENEMY TANKS AND TWO AT GUNS ARE LOCATED ON HILL "F".

b. OUR TEAM WILL ATTACK NORTH IN 20 MINUTES, WITH TWO PLATOONS ABREAST.

1ST PLATOON ON THE LEFT (WEST).
2D PLATOON ON THE RIGHT (EAST) OFF THE MAP.
3D PLATOON WILL FOLLOW THE 2D PLATOON.

PROBLEM V - (Continued)

FIRST PLATOON, YOUR MISSION IS TO FORCE THE ENEMY OFF HILL "F". DO NOT OCCUPY THE OBJECTIVE. THE BATTALION MORTAR PLATOON WILL BE IN GENERAL SUPPORT OF OUR TEAM. YOU WILL NOT HAVE ANY ATTACHMENTS.

SECOND PLATOON, * * *

THIRD PLATOON, * * *

c. I WILL BE WITH THE 3D PLATOON INITIALLY.

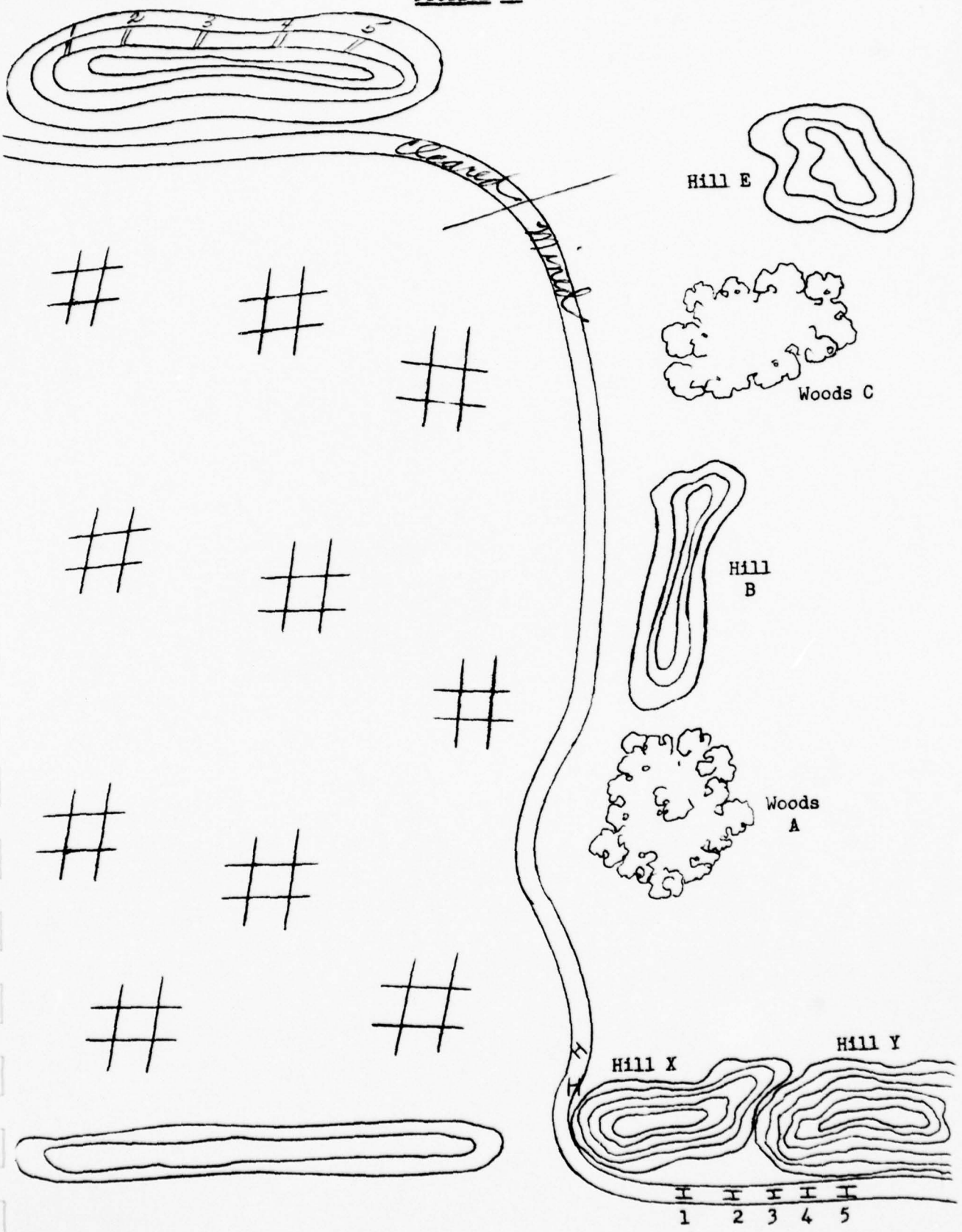
ARE THERE ANY QUESTIONS?

THE TIME IS NOW _____ HOURS.

REPORT WHEN YOU ARE READY TO MOVE.

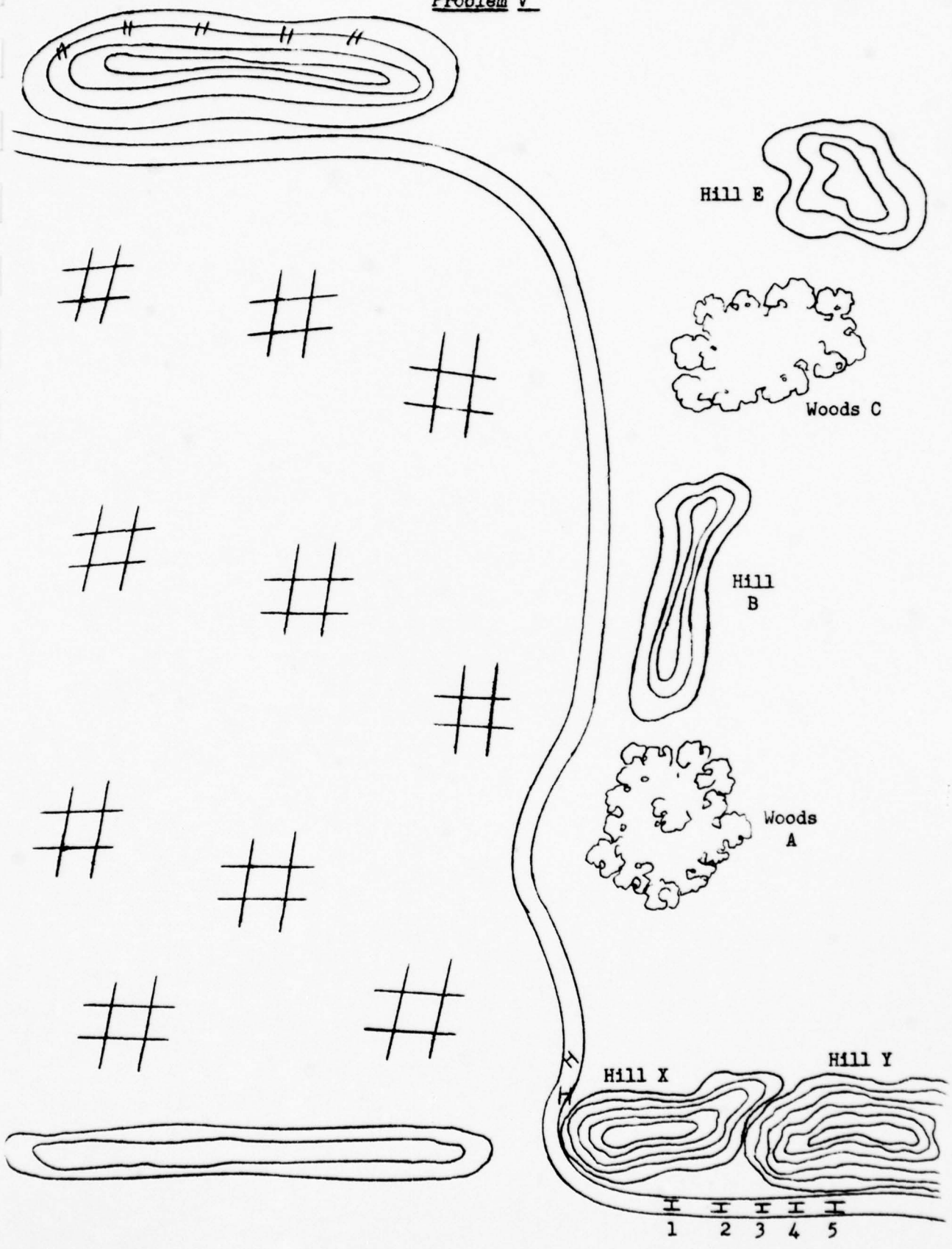
Map A.

Problem V



Map 2

Problem V



PROBLEM V - (Continued)

4. SOLUTION AND SCORING	Value	Score
(1) Assembles tank commanders	1	____
(2) Makes visual reconnaissance of area	1	____
(3) Makes map reconnaissance of area	1	____
(4) Explains situation to tank commanders	1	____
(5) Issues platoon attack order, and mentions	1	____
(a) Enemy force	1	____
Strength (2 tanks, 2 AT guns)	1	____
Location (on HILL "F")	1	____
Capability (Defend fortified positions - prepared)	1	____
(b) Friendly force	1	____
Platoon mission (Force enemy from HILL "F")	1	____
Platoon position in team attack (on left - west)	1	____
Other platoon positions (2d on right, 3d follow 2d)	1	____
Fire support available (Battalion Mortar Platoon in general support)	1	____
Attachments (NONE)	1	____
Scheme of movement (plan of attack)	1	____
Report when ready	1	____
(6) Requests supporting fire on HILL "F"	1	____
(7) Moves platoon into the River bed	3	____
(a) Designates manner of movement	1	____

PROBLEM V - (Continued)(Solution and Scoring)		Value	Score
(8)	Moves section into the River bed	1	____
	(a) Designates manner of movement	1	____
(9)	Moves all tanks toward HILL "F" in line	1	____
(10)	Formation zig-zagged as they moved	2	____
	(a) Orders section in River bed to open fire on HILL "F"	½	____
(11)	Moves section from behind HILL "X" into the open in line formation, zig-zagging as they move	1	____
	(a) Designates manner of movement	1	____
(12)	Moves all tanks in line formation toward HILL "F"	½	____
(13)	Moves section from behind HILL "X" into the open in line formation toward HILL "F"	½	____
	(a) Designates manner of movement	½	____
(14)	Moves section in River bed out in line formation, zig-zagging as they move	1	____
(15)	Moves section in River bed out in line formation toward HILL "F"	½	____
(16)	Requests smoke on HILL "F" before moving his tanks into the attack formation	1	____
(17)	Makes frontal attack on HILL "F" after enemy pulls back	1	____
(18)	Lifts artillery upon reaching HILL "F" in frontal attack	1	____
(19)	Sends base of fire to HILL "F" after enemy pulls back	2	____
	(a) Designates tanks to act as base of fire	1	____
	1. Flanks HILL "F" with other section	1	____

PROBLEM V - (Continued)(Solution and Scoring)		Value	Score
	a. Moves in echelon left or column formation	1	____
	b. Had all guns traversed to cover HILL "F" line formation	1	____
	c. Lifts artillery on HILL "F" for base of fire section	1	____
	2. Designates manner of movement	1	____
(20)	Flanks both ends of HILL "F" after enemy pulls back	3	____
	(a) Moved in echelon right or left or column, depending on which section	1	____
	(b) Had guns traversed to cover HILL "F" while flanking	1	____
	(c) Designated manner of movement	1	____
	(d) Continued artillery while making flank move	1	____
(21)	Reports to team commander	1	____
(22)	Any other action taken by the platoon leader besides that designated in the Scoring Sheet is worth one point for the entire action taken	1	____
(23)	Completes problem with NO tank losses	15	____
(24)	Completes problem with ONE tank loss	10	____
(25)	Completes problem with TWO tank losses	5	____
(26)	Completes problem with THREE tank losses	2	____
(27)	Completes problem with FOUR tank losses	1	____
	POSSIBLE SCORE	48	
	SCORE MADE		____

PROBLEM V - (Continued)(Solution and Scoring) Value Score

(28) Deduct five (5) points from SCORE MADE if incorrect radio procedure is habitually used.

TOTAL SCORE _____

FM-17-1 Paragraphs 91 through 93, (estimate of the situation) Paragraph 273, (attack order) and 281.

FM 17-33 Paragraphs 5a, 6, 22, 26b, 37, 38, 39, 40, 41, 44b, 49, 51, 58, 60, 83, 91, 92, 94, 95, 96b, 99, 100.

PROBLEM VI - Advance Through Close Terrain; Seize and Dominate Terrain; Coordinate Support Fires; Occupy Objective Against a Maneuvering Enemy

1. GENERAL

a. Terrain. The terrain will be emplaced as shown on Map "A". WOODS "X" and "Y" will be impassable to tanks, forcing the Test Platoon to move right or left of HILL "A". The curtain will be open, thereby permitting a view of the entire terrain complex.

b. Enemy. Enemy tanks and AT guns will be located and sited as shown on Map "A". All enemy movements and action will be controlled by the INSTRUCTOR through ASSISTANT INSTRUCTORS who will move the enemy tanks as ordered. The INSTRUCTOR will personally control the fire of the AT guns located in WOODS "X" and "Y". In the event any Test Platoon tanks move between HILL "A" and WOODS "X" and "Y" without first reconnoitering the woods by fire, the INSTRUCTOR will cause the AT guns to open fire. "Cracker-ball" ammo will also be used in conjunction with all enemy fire. Enemy tanks will respond to INSTRUCTOR commands by their number designation and will move on order, as indicated on Map "A". Casualties may be assessed by the INSTRUCTOR; others will occur normally as the Test Platoon takes proper action.

c. Test Platoon. The problem will begin with the platoon located and organized as depicted on Maps "A" and "B". The Test Platoon leader will then be given 15 minutes to complete his visual and map reconnaissance, brief his tank commanders, and issue the platoon attack order. The problem will be "free play" as far as the Test Platoon is concerned and casualties will NOT be assessed, but will occur normally if the platoon leader employs faulty tactics and techniques. All Test Platoon tanks knocked out by enemy action will remain out of action for the duration of the problem. In the event the platoon leader's tank is destroyed, the INSTRUCTOR will appoint the platoon sergeant to take command; if both the platoon sergeant and the platoon leader are casualties the INSTRUCTOR will designate a tank commander to assume command, with the resultant loss of communications to the team commander (INSTRUCTOR), but with platoon communications to the remaining tanks.

d. The Instructor. The INSTRUCTOR is responsible for being completely familiar with this entire document. In addition, he will act as the Test Platoon team commander, and controller of enemy action. The INSTRUCTOR will answer all calls from the platoon leader, and will direct his ASSISTANT INSTRUCTORS to place artillery fire ("cracker-ball" ammo) on areas designated by the platoon leader. Any platoon leader request for SMOKE will be supplied by the INSTRUCTOR from the INSTRUCTOR control panel, if SMOKE is available for the area designated. If no SMOKE is available, the INSTRUCTOR (team commander) will so inform the platoon

leader when the request is made. The INSTRUCTOR will begin the problem by conferring with the platoon leader on the floor in front of the control platform. (All other platoon personnel will be assembled behind the control platform where they cannot overhear the INSTRUCTOR and platoon leader.) The INSTRUCTOR will then orally issue the Operation Order and give the platoon leader five (5) copies of Map "B". No instructions, other than the order, will be given to the platoon leader. No coaching is permitted. After the platoon leader has issued his platoon order and informs the INSTRUCTOR he is ready, the INSTRUCTOR will order, "MOVE OUT." The ASSISTANT INSTRUCTOR will plot all platoon moves on a copy of Map "A". If a platoon loses four (4) tanks to enemy action BEFORE the problem is completed, the INSTRUCTOR will appoint a new platoon leader and the problem will be run again WITHOUT benefit of a critique. A critique will be conducted only if a problem has been completed. The INSTRUCTOR will place SMOKE on the HILLS as called for, or artillery fire on all HILLS as called for. However, HILLS "B", "C", and "D" can only be smoked once, so the INSTRUCTOR will inform the platoon leader (if SMOKE is requested) that "THE SMOKE SCREEN CANNOT BE SUSTAINED: TAKE FULL ADVANTAGE OF THE SMOKE YOU DO GET IMMEDIATELY", or words to that effect.

2. CONCEPT OF THE PROBLEM

a. Platoon Mission. The mission of the Test Platoon is to seize and occupy HILL "E". (See paragraph 3, Operation Order.)

b. Platoon Movement. The platoon will move as directed by the platoon leader. He will be responsible for all his platoon does or fails to do. Platoon movement and action will be motivated by the action of the enemy.

c. Enemy Action. Enemy action will be controlled by the INSTRUCTOR. The two (2) enemy tanks on HILL "A" will fire, on order of the INSTRUCTOR, at the Test Platoon tanks as the platoon moves toward HILL "A". (This fire will be augmented with "cracker ball" ammo to alert the platoon that they are under fire.) The two enemy tanks on HILL "A" will immediately move back to HILLS "B" and "C", as portrayed on Map "A". If, during the Test Platoon's move around HILL "A", the platoon fails to reconnoiter WOODS "X" or "Y", the INSTRUCTOR will cause the AT guns to fire (using "cracker-ball" ammo).

(1) If the Test Platoon smokes HILL "C" and attacks HILL "B", the enemy tanks on these two hills will be ordered by the INSTRUCTOR to move back to HILL "E".

(2) If the Test Platoon smokes HILL "B" and attacks HILL "C", the enemy tanks on HILL "B" will remain in place, and enemy tanks on HILL "C" will be ordered to move to HILL "E". Enemy tanks on HILL "B" will not be moved back, and will fire on Test

Platoon tanks until the Test Platoon fire actually knocks out the enemy tanks on HILL "B", or the Test Platoon tanks are destroyed by the combined fire of enemy tanks on HILL "B" and HILL "E", when in position. (Problem develops into a slugging match.)

(3) If the Test Platoon smokes HILL "B" amd HILL "C" and moves to HILL "D", the enemy tanks will be ordered to move back to HILL "E". The INSTRUCTOR will destroy two enemy tanks by use of the spot light if the Test Platoon can bring fire to bear from HILL "D" into flank of retreating enemy.

(4) The INSTRUCTOR will deny the Test Platoon the use of SMOKE on HILL "E". Enemy tanks will be ordered off HILL "E" if the Test Platoon uses fire and movement to flank HILL "E" either from HILL "D" or from HILL "B".

(5) If the Test Platoon takes HILL "C" and attempts to move against HILL "E" by any method, the INSTRUCTOR will cause four test tanks to be destroyed by use of the spot light. The INSTRUCTOR will cause the enemy tanks on HILL "B" to move off the crest and take positions behind HILL "B" so they can fire with immunity into the flank of any maneuvering Test Platoon element moving toward HILL "E".

(6) Any solution, other than taking HILL "C", will result in a successful mission.

d. Termination of Problem. The problem will be terminated (or temporarily suspended) when any of the following conditions exist:

(1) Problem terminates when:

(a) Test Platoon leader calls team commander (INSTRUCTOR) and reports, in essence,"Mission Accomplished."

(b) Test Platoon has lost four (4) tanks to enemy action.

(2) Problem will be suspended when:

(a) Test Platoon has lost two (2) tanks due to faulty or malfunctioning equipment (NOT the fault of operator).

(b) Test Platoon communications net is inoperative, excluding tank interphone or operator deficiency.

(c) INSTRUCTOR deems it necessary to prevent excessive damage to equipment (miniature tanks or terrain features).

NOTE: None of the above information will be given to the Test Platoon personnel.

PROBLEM VI - (Continued)

3. OPERATION ORDER (To be issued orally to the Test Platoon leader, along with five (5) copies of Map "B".)

a. AN ENEMY FORCE OF BATTALION SIZE IS LOCATED ABOUT 5 MILES NORTH OF HILL "E" (OFF THE TOP OF THE MAP). THIS ENEMY FORCE IS PREPARING TO ATTACK SOUTH. THEIR ATTACK WILL JUMP OFF IN ABOUT 3 HOURS. AN ENEMY SCREENING FORCE, CONSISTING OF TANKS AND AT GUNS, IS PROWLING AROUND TO OUR FRONT.

b. OUR TEAM WILL ATTACK NORTH TO DRIVE THIS ENEMY SCREENING ELEMENT BACK TOWARD THEIR MAIN FORCE, AND TO SEIZE AND OCCUPY TERRAIN WHICH WILL COMMAND THEIR AVENUES OF APPROACH. OUR TEAM WILL ATTACK IN 15 MINUTES, WITH THREE PLATOONS ABREAST.

1ST PLATOON ON THE LEFT (WEST).
2D PLATOON IN THE CENTER (OFF MAP TO THE RIGHT, EAST).
3D PLATOON ON THE RIGHT (EAST).

FIRST PLATOON, YOUR MISSION IS TO SEIZE AND OCCUPY HILL "E". YOU CAN EXPECT TO FIND ENEMY TANKS ON HILLS "B" AND "C". THE 2D PLATOON WILL BE ON YOUR RIGHT FLANK, BUT YOUR LEFT FLANK WILL BE OPEN.

THE BATTALION MORTAR PLATOON IS IN DIRECT SUPPORT OF THE 3D PLATOON, BUT A MEDIUM ARTILLERY BATTERY IS IN GENERAL SUPPORT OF OUR TEAM.

WE DO NOT HAVE ANY ATTACHMENTS.

c. I WILL BE WITH THE 2D PLATOON INITIALLY.

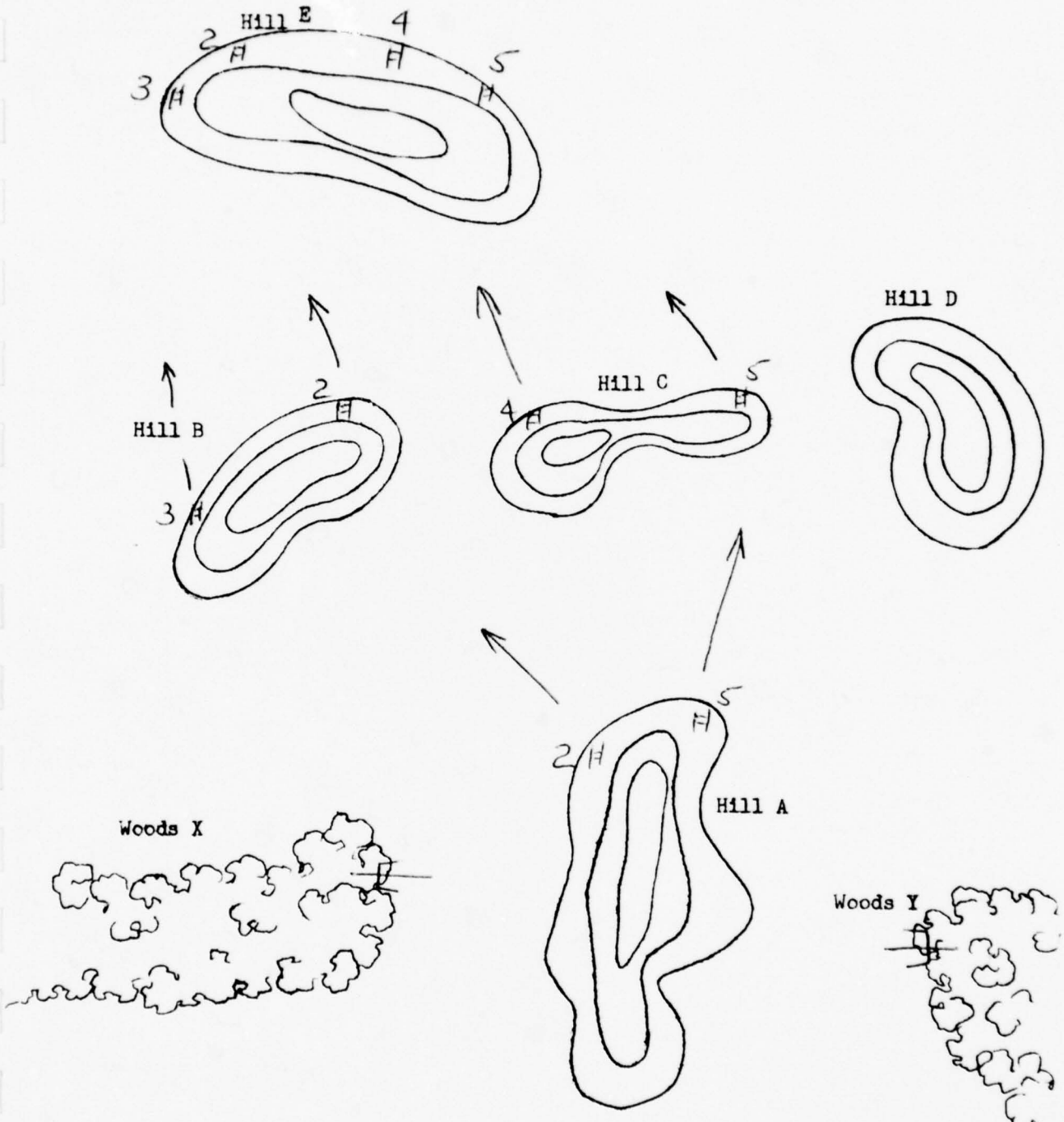
ARE THERE ANY QUESTIONS?

THE TIME IS NOW _____ HOURS.

REPORT WHEN YOU ARE READY TO MOVE.

MAP A

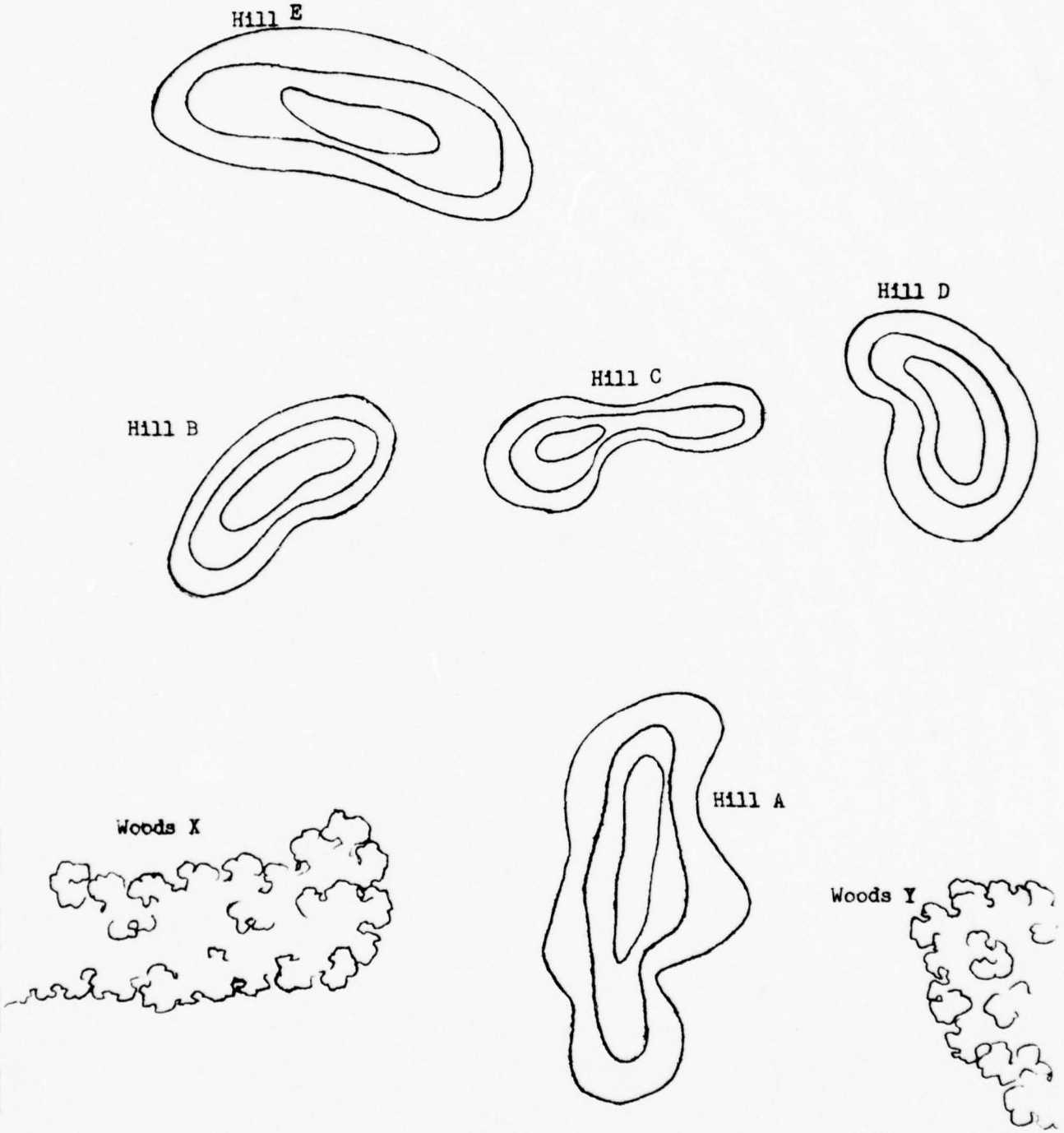
Problem VI



H 1
H 2
H 3
H 4
H 5

MAP B

Problem VI



H 1
H 2
H 3
H 4
H 5

PROBLEM VI - (Continued)

4. SOLUTION AND SCORING	Value	Score
(1) Assembles tank commanders	1	____
(2) Makes visual reconnaissance of area	1	____
(3) Makes map reconnaissance of area	1	____
(4) Explains situation to tank commanders	1	____
(5) Issues platoon attack order, and mentions	1	____
(a) Enemy force	1	____
Strength (Battalion size)	1	____
Location (north off map)	1	____
Purpose (to attack south)	1	____
Screening force (expect enemy tanks on HILLS "B" and "C")	1	____
(b) Friendly force	1	____
Team mission (drive back enemy screening force)	1	____
Platoon mission (seize and occupy HILL "E")	1	____
2d Platoon (in center)	1	____
3d Platoon (on right)	1	____
Fire support available (artillery battery in general support)	1	____
Attachments (NONE)	1	____
Scheme of movement (plan of attack)	1	____
Report when ready	1	____
(6) Deploys from column into wedge or line formation	1	____
(7) Reconnoitered WOODS "A" by fire	1	____
(8) Reconnoitered WOODS "B" by fire	1	____

PROBLEM VI - (Continued)(Solution and Scoring)	Value	Score
(9) Sets up base of fire on HILL "A"	2	____
(a) Designates manner of movement	1	____
(b) Designates tanks to act as base of fire	1	____
(10) Requests smoke on HILLS "B" and "C"	1	____
(11) Requests smoke on HILLS "C" and "D"	1	____
(12) Requests supporting fires on HILLS "B" and "C"	½	____
(13) Requests supporting fires on HILLS "C" and "D"	½	____
(14) Moves entire platoon to HILL "D"	2	____
(a) Moves in echelon left or wedge formation	1	____
(b) Moves with guns traversed to cover exposed flank	1	____
(15) Moves section to HILL "D"	3	____
(a) Moves in echelon left or wedge formation	1	____
(b) Moves with guns traversed to cover exposed flank	1	____
(c) Designates manner of movement	1	____
(16) Moves base of fire to HILL "D"	1	____
(a) Moves with guns traversed to cover exposed flank	1	____
(b) Designates manner of movement	1	____
(17) Moves entire platoon to attack HILL "B"	2	____
(a) Moves in echelon right or wedge formation	1	____
(b) Moves with guns traversed to cover exposed flank	1	____

PROBLEM VI - (Continued)(Solution and Scoring)	Value	Score
(18) Moves section to HILL "B"	3	____
(a) Moves in echelon right or wedge formation	1	____
(b) Moves with guns traversed to cover exposed flank	1	____
(c) Designates manner of movement	1	____
(19) Moves base of fire to HILL "B"	1	____
(a) Moves with guns traversed to cover exposed flank	1	____
(b) Designates manner of movement	1	____
(20) Lifts supporting fire or smoke after reaching either HILL "D" or "B"	1	____
(21) Requests supporting fire on HILL "E"	1	____
(22) Moves section to HILL "E" from HILL "D"	3	____
(a) Moves in echelon left or line formation	1	____
(b) Designates manner of movement	1	____
(c) Moves around right flank of HILL "D"	1	____
(d) Designates tanks to act as base of fire	1	____
(23) Moves section from HILL "B" to HILL "E"	2	____
(a) Moves in echelon right or line formation	1	____
(b) Moves around left flank of HILL "B"	1	____
(c) Designates manner of movement	1	____
(d) Designates tanks to act as base of fire	1	____
(24) Moves base of fire from HILL "D" to HILL "E"	1	____
(a) Moves around flank of HILL "D"	1	____
(b) Designates manner of movement	1	____

PROBLEM VI - (Continued)(Solution and Scoring)		Value	Score
(25)	Moves base of fire from HILL "B" to HILL "E"	1	____
	(a) Moves around flank of HILL "B"	1	____
	(b) Designates manner of movement	1	____
(26)	Moves entire platoon from either HILL "B" or HILL "D"	1	____
	(a) Moves around flank(s) of either HILL "B" or "D"	1	____
	(b) Designates type of formation	1	____
(27)	Lifts fire on HILL "E"	1	____
(28)	Reports MISSION ACCOMPLISHED	1	____
(29)	NO enemy antitank weapon ordered to fire by INSTRUCTOR	2	____
(30)	ONE enemy antitank weapon was ordered to fire by INSTRUCTOR	½	____
(31)	Any action taken by the platoon leader other than designated in the Score Sheet is worth ONE point for the entire action taken.	1	____
(32)	Completes problem with NO tank losses	15	____
(33)	Completes problem with ONE tank loss	10	____
(34)	Completes problem with TWO tank losses	5	____
(35)	Completes problem with THREE tank losses	2	____
(36)	Completes problem with FOUR tank losses	1	____
	POSSIBLE SCORE 67		
	SCORE MADE _____		
(37)	Deduct five (5) points from SCORE MADE if incorrect radio procedure was habitually used.	5	____
	TOTAL SCORE _____		

FM-17-1 Paragraphs 91 through 93, (estimate of the situation) and paragraph 273, (attack order) and 281.

FM-17-33 Paragraph 5a, 6, 22, 26b, 37, 38, 39, 40, 41, 44b, 49, 51, 58, 60, 83, 91, 92, 94, 95, 96b, 99, 100.

PROBLEM VII - Attack Through Semi-Open Terrain; Road Block; Minefield; Reconnaissance by Fire; Employment of Base of Fire; Use of Smoke

1. GENERAL

a. Terrain. The terrain will be emplaced as shown on Map "A". The first and second curtains will be closed, restricting the view of the board. The area on both sides of the road block will be mined. HILL "D" will be inaccessible to tanks.

b. The Enemy. The enemy will consist of five (5) tanks and two (2) antitank guns located initially as shown on Map "A". Enemy tanks will be controlled by the INSTRUCTOR through ASSISTANT INSTRUCTORS who will operate them. ASSISTANT INSTRUCTORS will also use "cracker-ball" ammunition to simulate enemy fire. Enemy action will depend upon the action taken by the Test Platoon leader (See paragraph 2).

c. Test Platoon. The Test Platoon will be located and sited as shown on Maps "A" and "B", with platoon organized as indicated. The problem will be "free play" as far as the Test Platoon is concerned. ASSISTANT INSTRUCTORS will provide "cracker-ball" ammo to simulate friendly artillery, if platoon leader requests artillery. Test Platoon leader will be permitted one smoke mission. If he calls for SMOKE on any terrain feature other than HILL "F", he will be denied the screen, and if subsequently he asks for smoke on HILL "F", the request will be denied. All Test Platoon tanks destroyed by enemy action will remain out of action for duration of the problem. In event the platoon leader is a casualty, the INSTRUCTOR will appoint the platoon sergeant to take command; if both the platoon leader and platoon sergeant become casualties, the INSTRUCTOR will designate a tank commander to assume command, with the resultant loss of communications to the team commander (INSTRUCTOR), but retaining communications over the platoon net with the remaining tanks.

NOTE: The INSTRUCTOR (team commander) will not respond to any calls made from any tank other than the platoon leader's or platoon sergeant's tank.

d. The Instructor. The INSTRUCTOR will be responsible for being completely familiar with the contents of this entire document. He will act as the Test Platoon team commander, and as controller of the enemy. The INSTRUCTOR will control all enemy fire and movement, including the use of "cracker-ball" ammo and ASSISTANT INSTRUCTORS' use of spot lights to knock out test tanks, if required. The CHIEF ASSISTANT INSTRUCTOR will plot all Test Platoon and enemy moves on a copy of Map "A". In the event the Test Platoon loses four (4) tanks to enemy action BEFORE the problem is completed, the INSTRUCTOR will appoint another platoon leader, reactivate the destroyed tanks, and run the problem again WITHOUT benefit of a critique. ONLY completed problems will be critiqued.

PROBLEM VII - (Continued)

2. CONCEPT OF THE PROBLEM

a. Platoon Mission. The mission of the platoon is to seize, occupy, and hold HILL "G".

b. Starting of the Problem. The problem will begin when the INSTRUCTOR and the selected platoon leader confer on the floor in front of the control platform. All other platoon personnel will be assembled behind the platform, where they cannot overhear the INSTRUCTOR and platoon leader. The INSTRUCTOR will issue the oral Operation Order to the platoon leader and give him five (5) copies of Map "B". In the meantime, the CHIEF ASSISTANT INSTRUCTOR will assign three (3) men to each tank, designating who will be the Driver, Gunner, and Tank Commander, respectively. The tank commander of Tank Nr 4 will be platoon sergeant. The platoon leader will be given 20 minutes to make his visual and map reconnaissance, brief the platoon, and issue his initial order to his tank commanders. The INSTRUCTOR will alert the ASSISTANT INSTRUCTORS. When the platoon leader notifies the INSTRUCTOR that the platoon is ready to begin, the INSTRUCTOR will order the platoon leader to "MOVE OUT".

c. Phase Nr 1. As the Test Platoon begins to move out (regardless of formation) and places tanks on HILL "A", or on the flanks of HILL "A", the INSTRUCTOR will open Curtain Nr 1, exposing the terrain to Curtain Nr 2, which is closed.

d. Phase Nr 2.

(1) If the platoon (or any tank therein) is ordered to fire on WOODS "C", the INSTRUCTOR will assess the enemy AT gun located therein a casualty. The same procedure for the enemy AT gun in WOODS "E".

(2) If one or neither of the WOODS is reconned by fire, the AT guns remain active. If the platoon, or any tank thereof, attempts to by-pass the road block between WOODS "C" and "E", the INSTRUCTOR will fire a mine and order an ASSISTANT INSTRUCTOR to destroy the tank(s) with a light beam.

(3) If the platoon, or any tank thereof, attempts to maneuver to the WEST (left) edge of WOODS "C" and one or both of the enemy AT guns remain active (See (1) and (2) above) the INSTRUCTOR will cause the active AT guns to fire (accompanied by "cracker-ball" ammo). A hit on a test tank, in this instance, will come as a result of the AT gun fire. Casualties will NOT be assessed by an ASSISTANT INSTRUCTOR'S light beam.

(4) If the platoon, or tanks thereof, maneuver to the EAST (right) around WOODS "E", the enemy AT guns will be assessed as "by-passed", and become ineffective.

PROBLEM VII - (Continued)

e. Phase Nr 3. (Assuming at least two (2) tanks reach HILL "B".)

(1) As the first tank begins to climb HILL "B", the INSTRUCTOR will open Curtain Nr 2, exposing the remainder of the terrain board.

(2) If the platoon, or any tank therein, recons WOODS "F" by fire, enemy tank Nr 1 will be ordered (by INSTRUCTOR) to move to his assigned position on HILL "G".

(a) If WOODS "F" is not reconned by fire, enemy tank Nr 1 remains in position and if any Test Platoon tanks move north on WILSON ROAD, enemy tank Nr 1 will fire, on order of the INSTRUCTOR, as will tank Nr 2 and Nr 5 (on HILL "F") and Nr 3 (HILL "G").

(b) The INSTRUCTOR will cause all test tanks on WILSON ROAD north of HILL "D" to be destroyed by use of the spot light.

(3) If the Test Platoon leaves a base of fire on HILL "B", and sends a maneuver element to the left (west) of HILL "E", enemy tanks Nr 1 and 2 will be ordered to their positions on HILLS "G" and "F", respectively. The same procedure holds true if the Test Platoon maneuvers the entire platoon to left (west) of HILL "E".

NOTE: The enemy tank on HILL "F" (Nr 5) will be ordered to fire on the maneuvering element.

f. Phase 4.

(1) If the problem gets this far, and the Test Platoon does NOT smoke HILL "F", the INSTRUCTOR will cause the Test Platoon maneuvering element which is moving from HILL "E" to HILL "G" to be destroyed.

(2) If smoke is used on HILL "F", the enemy tanks on HILL "E" will be ordered to withdraw; and if the Test Platoon immediately attacks HILL "G", while the smoke masks HILL "F", the INSTRUCTOR will order enemy tanks on HILL "G" to withdraw.

3. OPERATION ORDER (To be issued orally to the Test Platoon leader, along with five (5) copies of Map "B")

a. AN ENEMY FORCE OF UNDETERMINED STRENGTH, BUT EQUIPPED WITH TANKS AND AT GUNS, HAS BEEN DELAYING OUR MOVEMENT TO THE NORTH. THERE IS A FEELING AT HIGHER THAT THE ENEMY IS WITHDRAWING TO DRAW OUR FORCES INTO A KILLING TRAP--CONSEQUENTLY WE HAVE BEEN ATTACKING WITH CAUTION.

PROBLEM VII - (Continued)

b. OUR TEAM, WHICH IS A PART OF TASK FORCE FIELD, HAS BEEN SPEARHEADING THE ATTACK. WE HAVE NOW REACHED THE CRITICAL PHASE OF OUR ATTACK. OUR TEAM MUST SEIZE AND HOLD TWO TERRAIN FEATURES WHICH WILL PERMIT THE TF TO LAUNCH AN ALL OUT OFFENSE. WE MUST TAKE HILL "G" AND HILL 333 (OFF THE MAP TO THE RIGHT (EAST)).

1ST PLATOON, YOUR MISSION IS TO SEIZE AND HOLD HILL "G".
2D PLATOON -- HILL "333".
3D PLATOON TO FOLLOW 2D PLATOON.

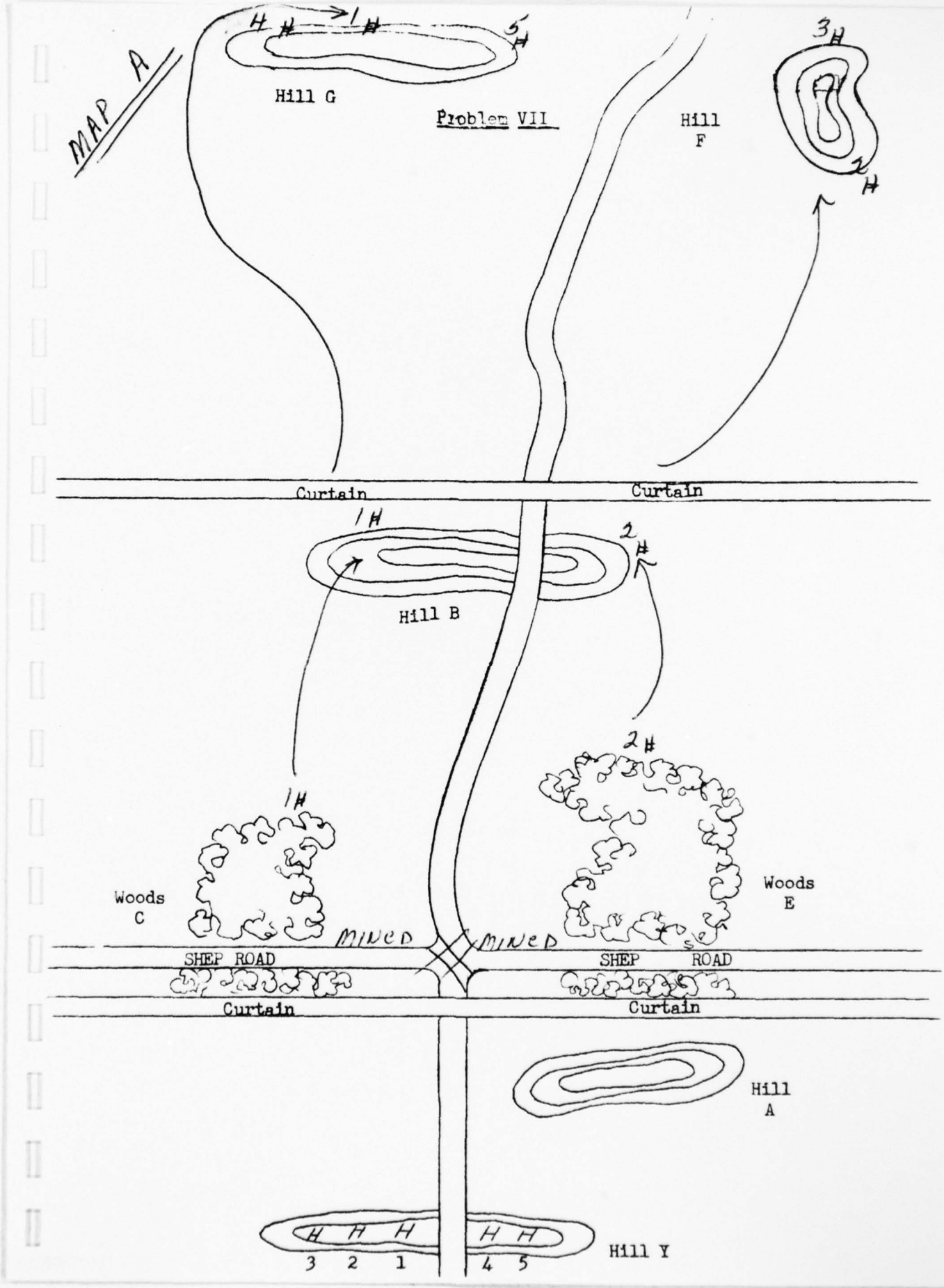
FIRST PLATOON, YOU WILL BE PREAPRED TO ATTACK IN 15 MINUTES. THE BATTALION MORTAR PLATOON WILL BE IN GENERAL SUPPORT; HOWEVER, YOU HAVE AT YOUR DISPOSAL ONE SMOKE MISSION. I CAUTION YOU, YOU HAVE ONLY ONE SMOKE MISSION AVAILABLE. USE IT TO YOUR BEST ADVANTAGE.

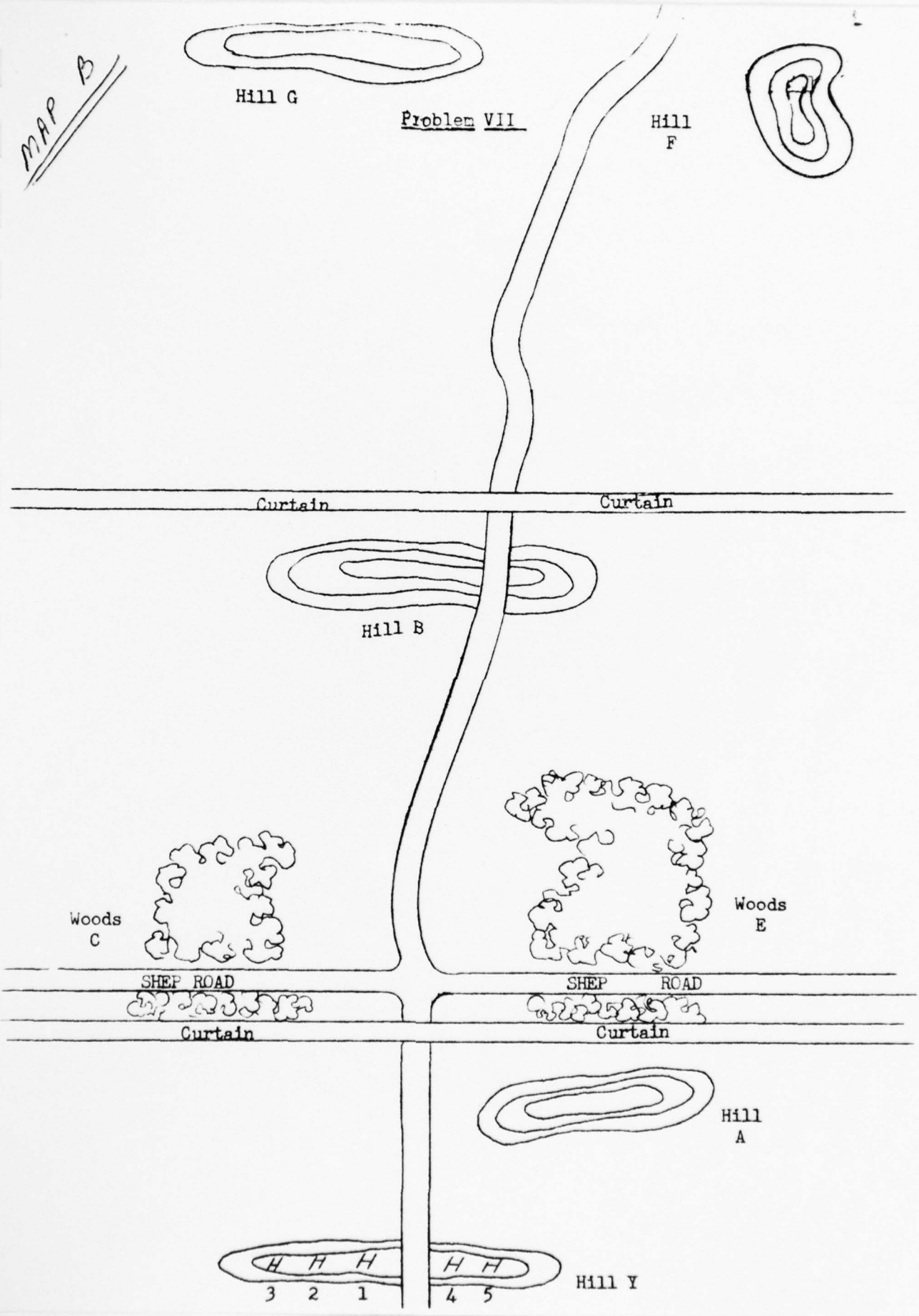
YOU WILL NOT HAVE ANY ATTACHMENTS.

I WILL BE WITH THE 3D PLATOON INITIALLY.

DO YOU HAVE ANY QUESTIONS?

IT IS NOW _____ HOURS.


MAP A
Problem VII
Hill G
Hill F
Hill B
Hill A
Hill Y
Curtain
Curtain
Curtain
Curtain
Woods C
Woods E
SHEP ROAD
SHEP ROAD
MINED
MINED
1H
2H
3H
4H
5H
1
2
3
4
5


MAP B
Hill G
Problem VII
Hill F
Curtain
Curtain
Hill B
Woods C
Woods E
SHEP ROAD
SHEP ROAD
Curtain
Curtain
Hill A
H H H H H
3 2 1 4 5
Hill Y

PROBLEM VII - (Continued)

4. SOLUTION AND SCORING	Value	Score
(1) Assembles the tank commanders	1	____
(2) Makes visual reconnaissance	1	____
(3) Makes map reconnaissance	1	____
(4) Explains situation to tank commanders	1	____
(5) Issues attack order, and mentions	1	____
(a) Enemy force	1	____
Strength (Tanks and AT Guns)	1	____
Disposition (unknown)	1	____
Action (delaying)	1	____
(b) Friendly force	1	____
Mission (Seize HILL "G")	1	____
TF to launch all-out offensive	1	____
Attack in 15 minutes	1	____
Mortar Platoon general support	1	____
ONE smoke mission available	1	____
NO attachments	1	____
Scheme (plan) for attack	1	____
Report when ready	1	____
PART I		
(6) Moves entire platoon from HILL "Y" to HILL "A"	½	____
(a) Moved around right flank of HILL "Y"	1	____
(7) Moves section from HILL "Y" to HILL "A"	1	____
(a) Moves around right flank of HILL "Y"	1	____

PROBLEM VII - (Continued)(Solution and Scoring)	Value	Score
(b) Designated manner of movement	1	____
(c) Designated tanks to act as base of fire	1	____
(8) Moves base of fire from HILL "Y" to HILL "A"	1	____
(a) Moves around right flank of HILL "Y"	1	____
(b) Designates manner of movement	1	____
(9) Reconnoitered by fire WOODS "E" before maneuvering around the right flank of WOODS "E"	2	____
(10) Reconnoitered by fire WOODS "C"	1	____
(11) Sent maneuver section around right flank of WOODS "E" to take HILL "B"	3	____
(a) Moves with guns traversed to cover exposed flank	1	____
(b) Moves around flank of HILL "A"	1	____
(c) Moves in echelon left or column formation	1	____
(d) Designates manner of movement	1	____
(e) Reconnoitered by fire WOODS "E" while flanking	1	____
(f) Designated tanks to act as base of fire	1	____
(12) Moves base of fire to HILL "B"	1	____
(a) Moves around right flank of HILL "A"	1	____
(b) Designates manner of movement	1	____
(13) Any action taken by the platoon leader other than that specified in the Score Sheet is worth ONE point for the entire action taken.	1	____

PART I POSSIBLE SCORE 40

SCORE MADE ON PART I _____

PROBLEM VII - (Continued)(Solution and Scoring)	Value	Score
PART II		
(14) Orders tanks on his right to take HILLS "D" and "F" under fire	2	____
(15) Orders tanks on his left to take HILLS "E" and "G" under fire	2	____
(16) Designates target(s) for his Gunner	1	____
(17) Requests supporting fire on HILL "D"	2	____
(18) Requests smoke on HILL "D"	1	____
(19) Requests supporting fires on HILL "G"	1	____
(20) Designates tanks to act as base of fire	1	____
(a) Has base of fire watch HILLS "D" and "F"	1	____
(21) Sends section to HILL "G"	3	____
(a) Moves around flank of HILL "B"	1	____
(b) Moves around left flank of HILL "E"	1	____
(c) Moves with guns traversed to cover exposed flank	1	____
(d) Designates manner of movement	1	____
(e) Requests smoke on HILL "F" to cover his flank	2	____
(22) Lifted supporting fire on HILL "G" before moving onto the hill	1	____
(23) Moves base of fire to HILL "G"	1	____
(a) Moves around left flank of HILL "B"	1	____
(b) Moves around left flank of HILL "E"	1	____
(c) Designates manner of movement	1	____
(24) Moves entire platoon to HILL "G"	1	____
(a) Moves around flank of HILL "B"	1	____

PROBLEM VII - (Continued)(Solution and Scoring)		Value	Score
	(b) Moves around left flank of HILL "E"	1	_____
	(c) Designates manner of movement	1	_____
(25)	Reports to team commander MISSION ACCOMPLISHED	1	_____
(26)	NO enemy gun ordered to fire by the INSTRUCTOR	5	_____
(27)	ONE enemy gun ordered to fire by the INSTRUCTOR	3	_____
	PART II POSSIBLE SCORE	30	
	SCORE MADE ON PART II		_____
(28)	Completes the problem with NO tank losses	15	_____
(29)	Completes the problem with ONE tank loss	10	_____
(30)	Completes the problem with TWO tank losses	5	_____
(31)	Completes the problem with THREE tank losses	2	_____
(32)	Completes the problem with FOUR tank losses	1	_____
	POSSIBLE SCORE FOR ENTIRE PROBLEM	85	
	SCORE MADE FOR ENTIRE PROBLEM		_____
(33)	Deduct five (5) points from SCORE MADE FOR ENTIRE PROBLEM if incorrect radio procedure was habitually used.	5	_____
	TOTAL SCORE		_____

FM-17-1 Paragraphs 91 through 93, (estimate of the situation) paragraph 273, (attack order) and 281.

FM-17-33 Paragraphs 5a, 6, 22, 26b, 37, 38, 39, 40, 41, 44b, 49, 51, 56, 60, 83, 91, 92, 94, 96b, 99, 100, 108.

PROBLEM VIII - Flank Guard in the Advance; Block Avenues of Approach; Observe from Commanding Terrain; and Reconnaissance by Fire

1. GENERAL

a. Terrain. The terrain will be emplaced as shown on attached Map "A". The curtain will be open, so that the entire terrain complex will be exposed to view.

b. Enemy. Five enemy tanks will be used in this problem; they will be located and sited as shown on Map "A". The INSTRUCTOR will control the activity of these concealed enemy tanks, and will at the same time order the ASSISTANT INSTRUCTORS to fire "cracker-ball" ammo to alert the platoon to the fact that the platoon is under fire. Enemy casualties will be assessed by the INSTRUCTOR in response to correct Test Platoon action.

c. Test Platoon. The Test Platoon initially will be located as shown on Map "B". The Test Platoon leader will be given the oral Operation Order and five (5) copies of Map "B", by the INSTRUCTOR. The Test Platoon leader will then be permitted 15 minutes in which to complete his visual and map reconnaissance, brief his tank commanders, and issue his orders. The problem will be "free play" as far as the Test Platoon is concerned. Test Platoon casualties will NOT be assessed, but will occur normally if the platoon employs faulty techniques, or tactics. All Test Platoon tanks knocked out by enemy action will remain out of action for duration of the problem. If the platoon leader's tank is knocked out, the platoon sergeant will assume command (or order of the INSTRUCTOR); if the platoon sergeant is knocked out, the INSTRUCTOR will designate a tank commander to assume command, with the resultant loss of communications to the team commander (INSTRUCTOR), but with platoon communications to the remaining tanks.

d. The Instructor. The INSTRUCTOR will be completely familiar with this entire document. In addition, the INSTRUCTOR will act as the Test Platoon leader's team commander, and will respond to all calls made by the Test Platoon leader; however, the INSTRUCTOR will refrain from coaching the platoon leader. The INSTRUCTOR will orally issue the Operation Order, and give five (5) copies of Map "B" to the Test Platoon leader. No other instructions regarding the problem will be divulged. When the platoon leader indicates he is ready, the INSTRUCTOR will command, "MOVE OUT." The ASSISTANT INSTRUCTOR will plot all Test Platoon moves on a copy of Map "A". If the Test Platoon loses four (4) tanks to enemy action BEFORE the problem is completed, the INSTRUCTOR will appoint a new platoon leader and the problem will be run again WITHOUT benefit of a critique. A critique will be conducted ONLY if the problem is completed.

2. CONCEPT OF THE PROBLEM

a. Platoon Mission. The mission of the platoon is to

protect the right (east) flank of a Task Force moving north off the map to the left (west). (See Map "A", and paragraph 3, Operation Order.)

b. Platoon Movement. The Test Platoon will be situated as shown on Map "A". The Test Platoon leader will be given the oral order and 15 minutes to make his preparations and issue his initial order to his tank commanders. The platoon leader will be responsible for selecting the platoon formation and method of movement. (See paragraph 4, Solution and Scoring.)

c. Enemy Action. Enemy tanks will be located as shown on Map "A", and will be concealed from view of the Test Platoon until the INSTRUCTOR orders them to expose themselves. As the lead element of the flank guard approaches PHASE LINE BLACK (COOK ROAD), the INSTRUCTOR will order enemy tanks in BARNS 1 and 2 to depart their shelter and move slowly toward REYNOLDS ROAD. As the Test Element takes up positions and fires on enemy tanks, the enemy tanks will return the fire, then on order retreat to WOODS "D". No casualties will be assessed. However, if the Tested Platoon does not reconnoiter WOODS "B" by fire, the enemy tank hidden there will be ordered to open fire (by the INSTRUCTOR) as the Tested Platoon moves beyond PHASE LINE BLACK. If WOODS "B" is reconnoitered by fire, the enemy tank therein will be assessed a casualty. As the Test Platoon moves toward BAKER ROAD (or lead element thereof) the INSTRUCTOR will order the enemy tanks on BAKER ROAD to move out from behind WOODS "D", slowly toward WOODS "C". As the fire fight develops, the INSTRUCTOR will order the enemy tanks to withdraw. No casualties will be assessed.

d. Termination of Problem. The problem will be terminated (or temporarily suspended) when any of the following conditions exist:

(1) Problem terminates when:

(a) Test Platoon leader calls team commander (INSTRUCTOR) and reports in essence, "Mission Accomplished."

(b) Test Platoon has lost four (4) tanks to enemy action (See paragraph 1c above).

(2) Problem will be suspended when:

(a) Test Platoon has lost two (2) tanks due to faulty or malfunctioning equipment (NOT the fault of the operator).

(b) Test Platoon communications net is inoperative, excluding tank interphone or operator deficiency.

PROBLEM VIII - (Continued)

(c) The INSTRUCTOR deems it necessary to prevent excessive damage to equipment (miniature tanks or terrain features).

NOTE: None of the above information will be given to the Test Platoon personnel.

3. OPERATION ORDER (To be issued orally to the Test Platoon leader, along with five (5) copies of Map "B")

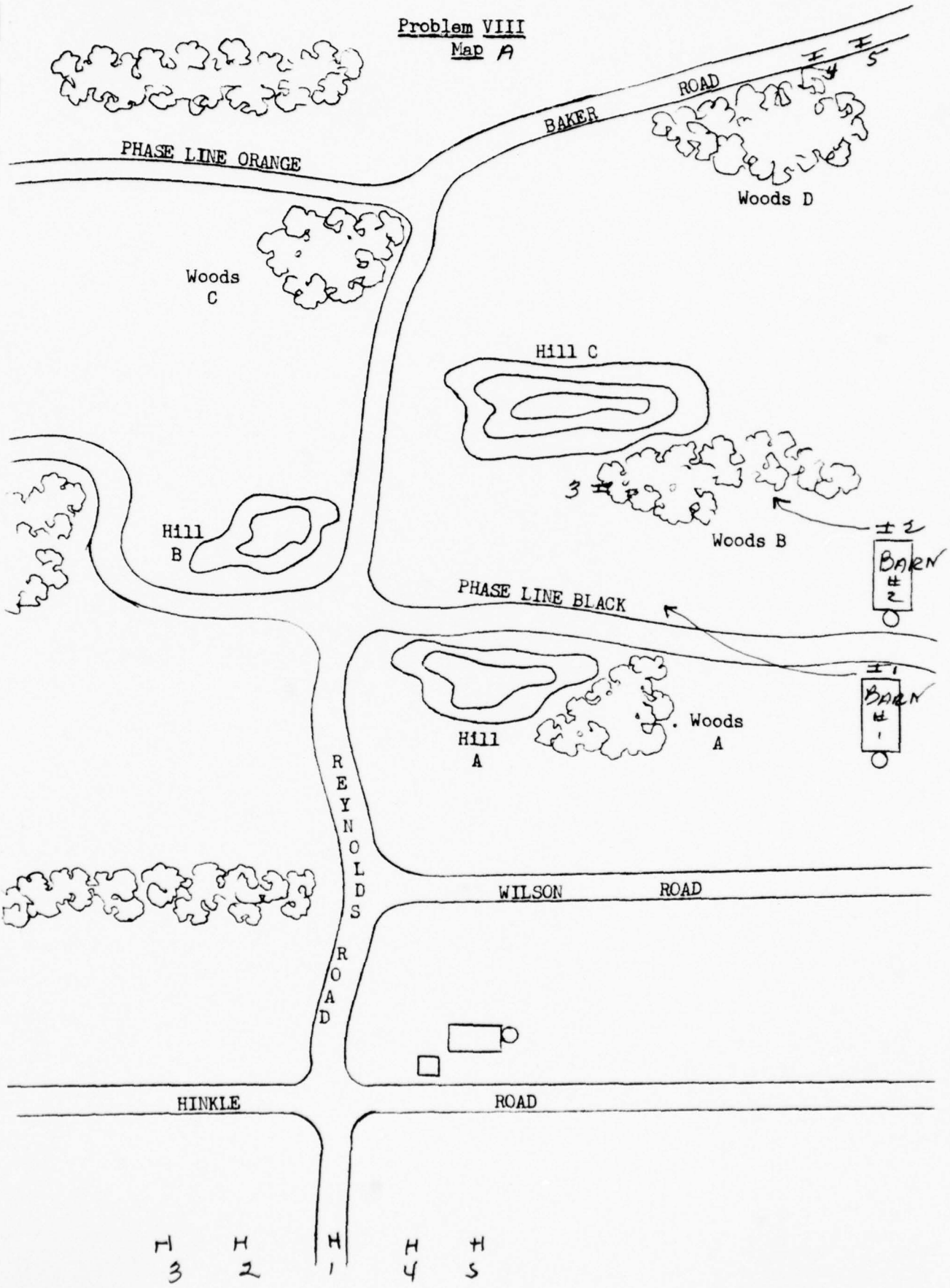
a. AN ENEMY ARMOR FORCE OF BATTALION SIZE IS EMPLOYING STRONG DELAYING TACTICS AS THEY MOVE BACK (NORTH) TOWARD BAKER ROAD OFF THE MAP TO THE LEFT (WEST). REINFORCEMENTS HAVE BEEN REPORTED TO BE MOVING WEST, FROM THE EAST, OFF THE MAP TO YOUR RIGHT. THE STRENGTH OF THESE REINFORCEMENTS IS UNKNOWN, BUT IT IS REPORTED THAT THEY HAVE TANKS.

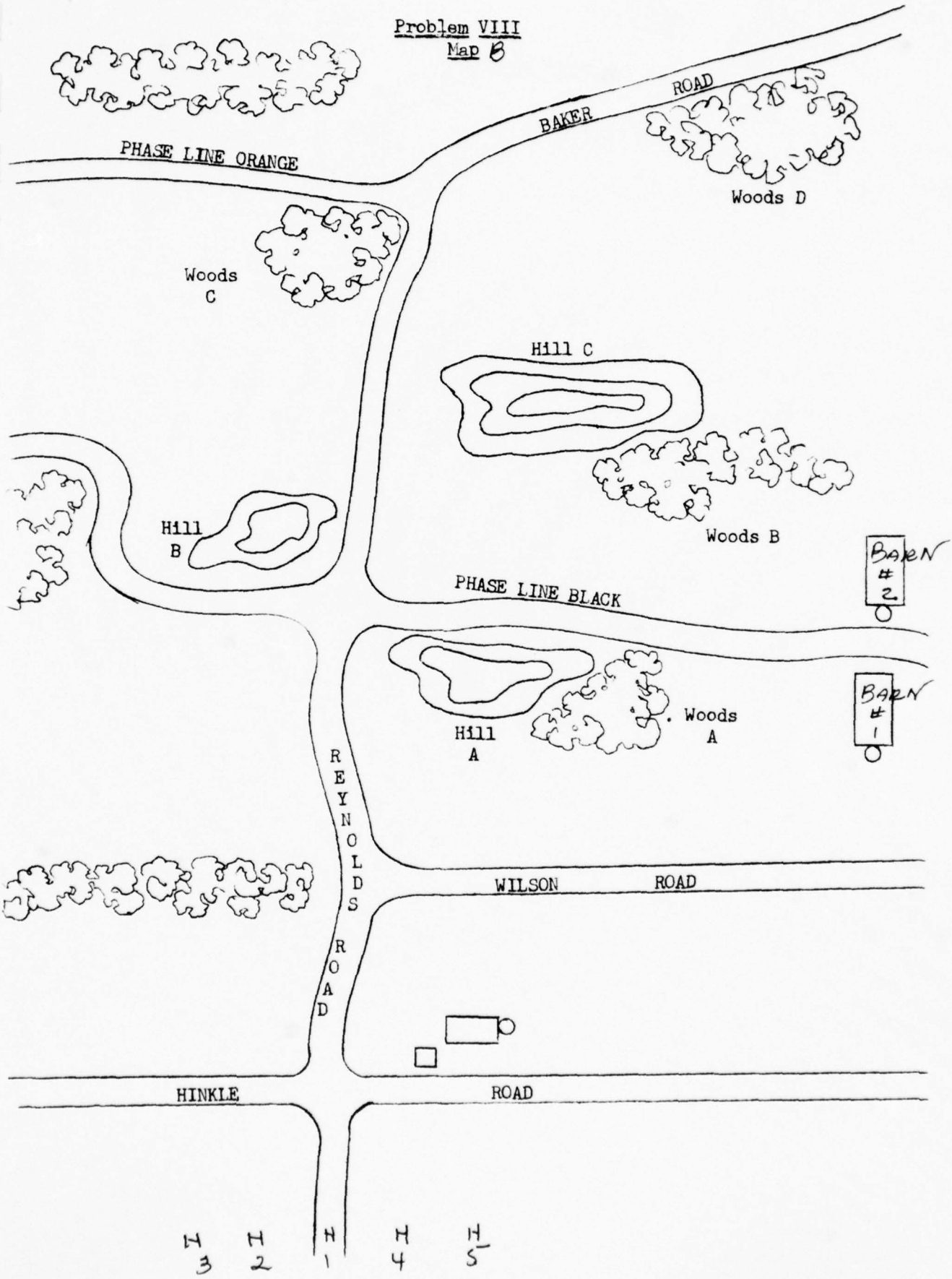
b. OUR TASK FORCE IS ATTACKING NORTH, OFF THE MAP TO YOUR LEFT (WEST), AND THE PROGRESS IS SLOW. YOUR MISSION IS TO PROTECT THE TASK FORCE RIGHT (EAST) FLANK. YOU WILL DO THIS BY MOVING NORTH ALONG REYNOLDS ROAD AND RECONNOITERING HINKLE ROAD TO THE EAST (RIGHT); WILSON ROAD TO THE EAST (RIGHT); THEN BLOCK COOK ROAD, AND MAINTAIN THE BLOCK UNTIL I ORDER YOU TO BLOCK BAKER ROAD. KEEP ME INFORMED AT ALL TIMES. YOU WILL NOT HAVE ANY ARTILLERY OR MORTAR SUPPORT. YOU WILL NOT HAVE ANY ATTACHMENTS OR DETACHMENTS. THE 2D AND 3D PLATOONS WILL BE WITH THE MAIN COLUMN. I WILL BE WITH THE 2D PLATOON INITIALLY.

ARE THERE ANY QUESTIONS?

THE TIME IS NOW _____ HOURS.

REPORT TO ME WHEN YOU ARE READY TO MOVE.


Problem VIII
Map A
BAKER ROAD
PHASE LINE ORANGE
Woods D
Woods C
Hill C
Hill B
Woods B
BARN
PHASE LINE BLACK
Hill A
Woods A
REYNOLDS ROAD
WILSON ROAD
HINKLE ROAD
H 3
H 2
H 1
H 4
H 5


Problem VIII
Map B
BAKER ROAD
PHASE LINE ORANGE
Woods D
Woods C
Hill C
Hill B
Woods B
BARN #2
PHASE LINE BLACK
Hill A
Woods A
BARN #1
REYNOLDS ROAD
WILSON ROAD
HINKLE ROAD
H 3
H 2
H 1
H 4
H 5

PROBLEM VIII - (Continued)

4. SOLUTION AND SCORING SHEET	Value	Score
(1) Assembles tank commanders	1	_____
(2) Makes visual reconnaissance of area	1	_____
(3) Makes map reconnaissance of area	1	_____
(4) Explains situation to tank commanders	1	_____
(5) Issues platoon movement order, and mentions	1	_____
(a) Enemy force (moving back slowly)	1	_____
Strength (unknown)	1	_____
Approximate location (east)	1	_____
Direction of movement (west)	1	_____
(b) Friendly force (attacking north)	1	_____
Platoon mission (flank guard)	1	_____
Reconnoiter HINKLE ROAD	1	_____
Reconnoiter WILSON ROAD	1	_____
Block COOK ROAD	1	_____
Block BAKER ROAD	1	_____
Time of movement (in 15 minutes)	1	_____
Disposition of 2d and 3d platoons	1	_____
Fire support available (NONE)	1	_____
Attachments (NONE)	1	_____
Scheme of movement (bounds, etc.)	1	_____
Report when ready	1	_____
(6) Some tank reconnoiters BARN "X"	1	_____
(7) Moves section to HILL "A"	1	_____
(a) Designates manner of movement	1	_____

PROBLEM VIII - (Continued)(Solution and Scoring)		Value	Score
(8)	Moves section to HILL "B"	1	____
	(a) Designates manner of movement	1	____
(9)	Reconnoiters WOODS "A" by fire	1	____
(10)	Platoon moves from WILSON ROAD to HILL "A" by bounds	1	____
(11)	Reconnoiters WOODS "B" by fire from HILL "A"	1	____
(12)	Moves section to HILL "B" by leap-frog	3	____
	(a) Moves to HILL "B" by successive bounds	1	____
	(b) Designates manner of movement	1	____
(13)	Occupies HILL "B" with one section	1	____
(14)	Occupies HILL "A" with one section	1	____
(15)	Designates enemy targets from BARNS #1 and #2 to specific tanks	3	____
(16)	Designates enemy targets from BARNS #1 and #2 to a section	1	____
(17)	Section on HILL "B" reconnoiters WOODS "C"	3	____
(18)	Section on HILL "A" leap-frogs to HILL "C"	3	____
	(a) Designates manner of movement	1	____
(19)	Section on HILL "B" leap-frogs to WOODS "C"	3	____
	(a) Designates manner of movement	1	____
(20)	Designates targets emerging from WOODS "D" to specific tanks on HILL "C"	3	____
(21)	Designates targets emerging from WOODS "D" to section on HILL "C"	1	____
(22)	Any other solution from HILL "A" to WOODS "C" and HILL "C"	3	____

PROBLEM VIII - (Continued)(Solution and Scoring)	Value	Score
(23) Any action taken by the platoon leader other than that designated on the Score Sheet is worth ONE point for the entire action taken.	1	____
(24) Completes problem with NO tank losses	15	____
(25) Completes problem with ONE tank loss	10	____
(26) Completes problem with TWO tank losses	5	____
(27) Completes problem with THREE tank losses	2	____
(28) Completes problem with FOUR tank losses	1	____

POSSIBLE SCORE 67

SCORE MADE _____

(29) Deduct five (5) points from SCORE MADE if incorrect radio procedure was habitually used. 5 ____

TOTAL SCORE _____

FM-17-1 Paragraphs 91 through 93 (estimate of the situation) and paragraph 273, (attack order)

FM-17-33 Paragraphs 5a, 6, 22, 26b, 37, 38, 39, 40, 44b, 49, 51, 56, 60, 62, 63, 67c, 70, 74, 83, 91, 92, 94, 96b.

PROBLEM IX - Delaying Action; Selection of Intermediate Position; Method of Movement; Designation of Targets; Action on Final Delay Position

1. GENERAL

a. Terrain. The terrain will be emplaced as shown on Map "A". The last curtain will be closed to deny a view of enemy dispositions. WOODS "B" must have a lane to permit unrestricted movement of tanks in column.

b. The Enemy. The enemy will consist of five (5) tanks located behind a low hill at the extreme northwest corner of the terrain board (See Map "A"). Enemy tanks will be controlled by the INSTRUCTOR through ASSISTANT INSTRUCTORS. Enemy movement will depend upon the action taken by the Test Platoon leader (See paragraph 2). "Cracker-ball" ammo will be used as directed by the INSTRUCTOR to indicate enemy fire.

c. Test Platoon. The Test Platoon will be located and sited as shown on Maps "A" and "B", with platoon organization as indicated. The platoon will move, and delay, as directed by the platoon leader. The problem will be "free play" as far as the Test Platoon is concerned. All Test Platoon tanks destroyed by enemy action, or knocked out by the INSTRUCTOR, will remain out of action for the duration of the problem. In the event the platoon leader becomes a casualty, the INSTRUCTOR will appoint the platoon sergeant to take command; if both the platoon leader and platoon sergeant become casualties, the INSTRUCTOR will designate a tank commander to assume command, with the resultant loss of communications to the team commander (INSTRUCTOR) but retaining communications over the platoon net with the remaining tanks.

NOTE: The INSTRUCTOR (team commander) will not respond to any calls from any tank other than the platoon leader's and platoon sergeant's tanks.

d. The Instructor. The INSTRUCTOR will be responsible for being completely familiar with this entire document. In addition, the INSTRUCTOR will act as the Test Platoon team commander, and as controller of the enemy. The INSTRUCTOR will control all firing and movement of the enemy, as indicated in paragraph 2, CONCEPT OF PROBLEM. He will also direct the activities of ASSISTANT INSTRUCTORS in the use of "cracker-ball" ammunition. The CHIEF ASSISTANT INSTRUCTOR will plot all Test Platoon and enemy moves on a copy of Map "A". In the event the Test Platoon loses four (4) tanks to enemy action BEFORE the problem is completed, the INSTRUCTOR will appoint another platoon leader and run the problem again WITHOUT benefit of a critique. ONLY completed problems will be critiqued.

PROBLEM IX - (Continued)

2. CONCEPT OF THE PROBLEM

a. Platoon Mission. The mission of the platoon is to conduct a delaying action from HILLS "D" and "E" to a final delay position on HILLS "A" and "B".

b. Starting of the Problem. The problem will start with the INSTRUCTOR appointing and conferring with the Test Platoon leader on the floor in front of the control platform. All other test personnel will be assembled behind the control platform, where they cannot overhear the INSTRUCTOR and platoon leader. The INSTRUCTOR will brief the platoon leader and issue the oral Operation Order; in addition, the INSTRUCTOR will give the platoon leader five (5) copies of Map "B". The INSTRUCTOR will then assign three men to each tank, designating who will be commander, driver, and gunner, and who shall be platoon sergeant. The platoon leader will be given 15 minutes to make his visual and map reconnaissance, brief the platoon, and issue his initial order to his tank commanders. When the platoon leader notifies the INSTRUCTOR that the platoon is ready to begin the problem, the INSTRUCTOR will open the curtain exposing the enemy situation, and ordering five enemy tanks to begin movement toward HILL "E". Two other enemy tanks will be opposite HILL "D" but will remain stationary. As enemy action and pressure begin against HILL "E", the INSTRUCTOR will cause "cracker-ball" ammo to be fired at HILL "E" and will then call the platoon leader (as team commander) and order the platoon leader to move his platoon back to the final delay position on HILLS "A" and "B".

MESSAGE SPEARHEAD 11 THIS IS BALONEY 46, BEGIN MOVE TO FINAL DELAY POSITION.

c. Enemy Reactions to Test Platoon Movements.

(1) If the Test Platoon leader orders his entire platoon to begin the movement to the rear simultaneously, the INSTRUCTOR will order the enemy tanks opposite HILL "E" to close immediately with the Test Platoon and pursue them to HILLS "A" and "B", denying the Test Platoon freedom of movement and the opportunity to systematically set up its final delay positions. At the same time, the INSTRUCTOR will order the two (2) enemy tanks opposite HILL "D" to move with all speed directly to HILL "A". Test Platoon casualties will be assessed by the INSTRUCTOR'S spot light. This type of Test Platoon movement is doomed to failure. The problem will not be completed (See paragraph 1d).

(2) If the Test Platoon leader orders Tanks 4 and 5 to proceed directly to HILLS "A" or "B", the INSTRUCTOR will wait until Tanks 4 and 5 are behind HILL "C", or are screened by WOODS "B", and then order the five enemy tanks opposite HILL "E" to attack the east flank of HILL "E", thereby destroying Tanks 1, 2, and 3 on HILL "E", and then continue the attack around the

east flank of WOODS "B". The platoon's mission would not be fulfilled.

(3) If the Test Platoon leader orders Tanks 4 and 5 to take positions on HILL "C", the INSTRUCTOR will order the enemy tanks to halt and deploy, then set up a base of fire with two tanks and maneuver three to the east of HILL "E". If the platoon leader assigns targets to his tanks, the INSTRUCTOR will cause two (2) enemy tanks to be knocked out in the maneuvering element (Test Platoon action may do this naturally). When Tanks 4 and 5 report to the platoon leader that they are in position, and the platoon leader orders his section to move back, the INSTRUCTOR will cause the remaining enemy tanks to move east of HILL "E"; these enemy tanks will be destroyed, if the test tanks on HILL "E" take them under fire, permitting Test Platoon accomplishment of mission.

(4) If the Test Platoon occupies HILLS "A" and "B", the INSTRUCTOR will order three enemy tanks to flank as indicated on Map "A". Additional credit will be given the Test Platoon leader if he maneuvers the section on HILL "B" through the opening in WOODS "B" and attacks the enemy from the rear, while tanks on HILL "A" cover the east flank of HILL "B" and WOODS "B".

d. *Termination of Problem*.

(1) Problem terminates when:

(a) Test Platoon leader informs team commander (INSTRUCTOR), "I AM ON FINAL DELAY POSITION", or words to that effect.

(b) Test Platoon has lost four (4) tanks to enemy action.

(2) Problem will be suspended when:

(a) Test Platoon has lost two (2) tanks due to faulty equipment.

(b) Test Platoon communications net is inoperative, excluding tank interphone or operator deficiency.

(c) INSTRUCTOR deems it necessary to prevent excessive damage to equipment (tanks and terrain features).

NOTE: None of the above will be divulged to the platoon.

PROBLEM IX - (Continued)

3. OPERATION ORDER (Issued orally to Test Platoon leader, along with five (5) copies of Map "B")

a. AN ENEMY ARMOR FORCE OF APPROXIMATELY 3 BATTALIONS HAS BEEN ATTACKING SOUTH ON A COMPARATIVELY NARROW FRONT. THE PRESSURE HAS BEEN STEADY AND UNRELENTING. INDICATIONS ARE THAT THE ENEMY IS NOW PREPARED TO LAUNCH AN ALL-OUT ATTACK WHICH MAY COMMENCE AT ANY MOMENT.

b. OUR TEAM, WHICH IS PART OF TASK FORCE FIELD, HAS BEEN ENGAGED IN A DELAYING ACTION FOR THE PAST TWO DAYS. WE ARE DEPLOYED WITH THREE PLATOONS ABREAST.

1ST PLATOON ON THE LEFT (WEST)
2D PLATOON IN THE CENTER (OFF MAP TO THE EAST)
3D PLATOON ON THE RIGHT (OFF MAP TO THE EAST)

FIRST PLATOON, YOU ARE IN POSITION ON HILLS "D" AND "E"; SECOND SECTION ON HILL "D", FIRST SECTION ON HILL "E". LOOK AT MAP "B". DELAY THE ENEMY IN YOUR PRESENT POSITIONS AS LONG AS YOU CAN WITHOUT BECOMING TOO FIRMLY ENGAGED. YOUR FINAL DELAY POSITION IS ON HILLS "A" AND "B".

YOU WILL NOT HAVE ANY SUPPORTING FIRES.

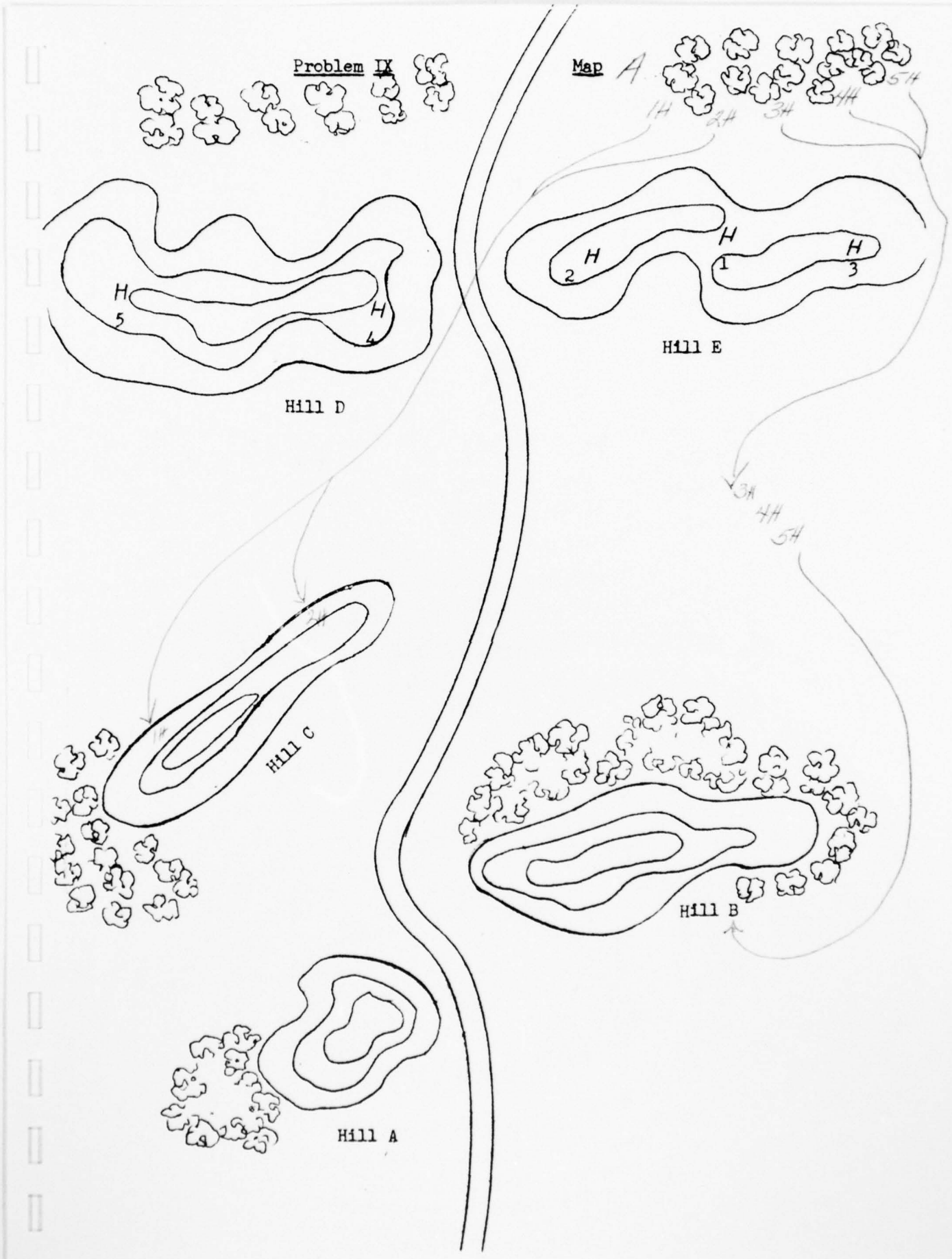
YOU DO NOT HAVE ANY ATTACHMENTS.

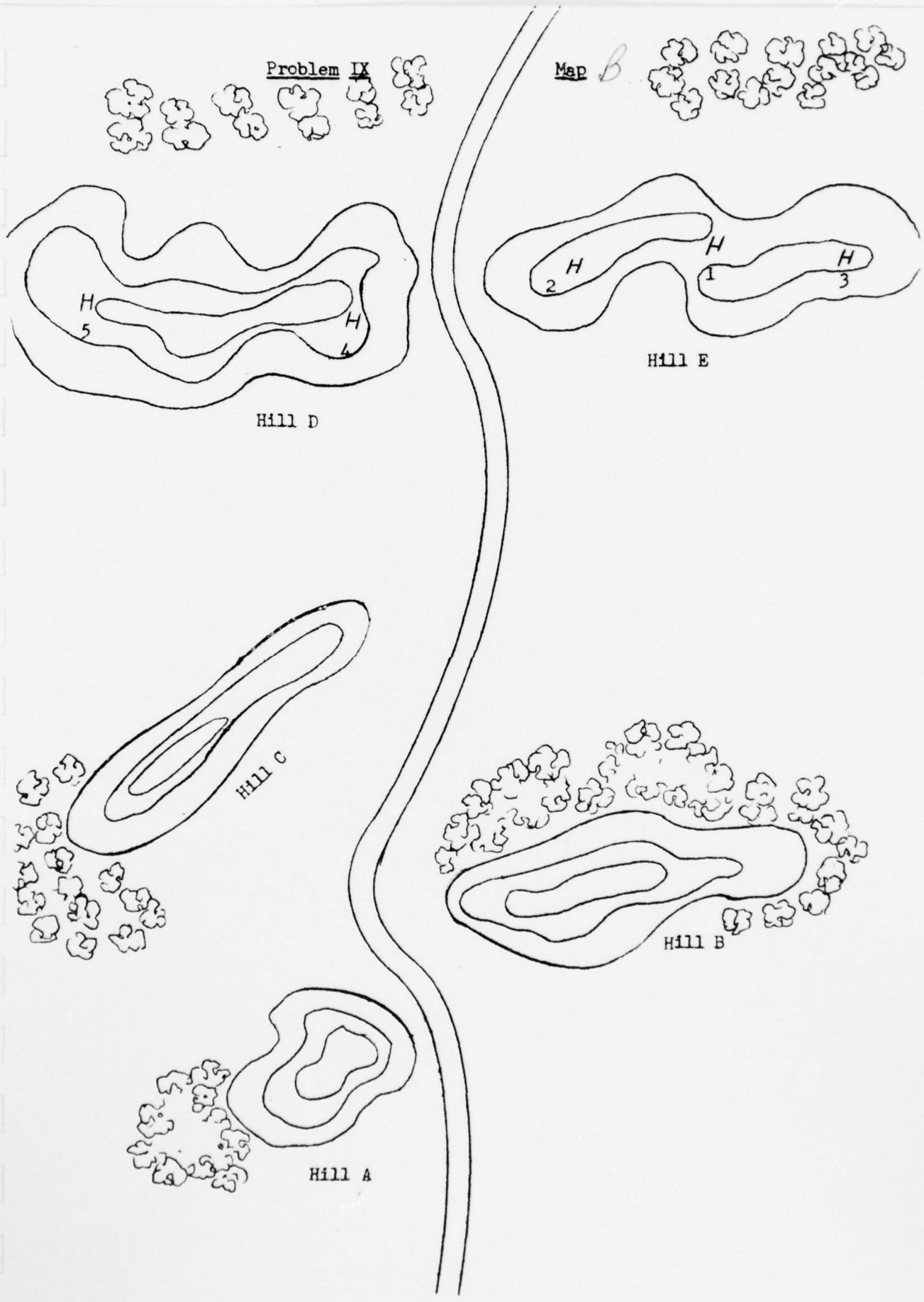
I WILL BE WITH THE 2D PLATOON, INITIALLY.

ARE THERE ANY QUESTIONS?

THE TIME IS NOW _____ HOURS.

REPORT WHEN YOU ARE READY TO BEGIN.


Problem IX
Map A
1H
2H
3H
4H
5H
H
1
H
2
H
3
H
4
H
5
Hill D
Hill E
3H
4H
5H
2H
1H
Hill C
Hill B
Hill A


Problem IX
Map B
H
5
H
4
Hill D
H
2
H
1
H
3
Hill E
Hill C
Hill B
Hill A

PROBLEM IX - (Continued)

4. SOLUTION AND SCORING	Value	Score
(1) Assembles tank commanders	1	____
(2) Makes visual reconnaissance of area	1	____
(3) Makes map reconnaissance of area	1	____
(4) Explains situation to tank commanders	1	____
(5) Issues platoon order, and mentions	1	____
(a) Enemy force	1	____
Strength (3 battalions)	1	____
Direction of movement (south)	1	____
Capability (attack)	1	____
(b) Friendly force	1	____
Platoon mission	1	____
Initial delay position (HILLS "D" and "E"	1	____
Final delay position (HILLS "A" and "B"	1	____
Fire support (NONE)	1	____
Attachments (NONE)	1	____
Report when ready	1	____
(6) Moves section on HILL "D" back to HILL "C"	2	____
(a) Section moved to HILL "C" with turrets traversed to rear or flank	1	____
(b) Moved into position on HILL "C" by moving around the flank of HILL "C"	1	____
(c) Section on HILL "C" reported when in position	1	____
(d) Designated manner of movement	1	____

PROBLEM IX - (Continued)(Solution and Scoring)	Value	Score
(7) Moves section on HILL "E" back to HILL "B"	2	____
(a) Section moves to HILL "B" with turrets traversed to rear or flanks	1	____
(b) Moves into position on HILL "B" by moving around the flank of HILL "B"	1	____
(c) Designated manner of movement	1	____
(8) Moved section on HILL "C" back to HILL "A"	1	____
(a) Section moved to HILL "A" with turrets traversed to rear or flank	1	____
(b) Moved into position on HILL "A" by moving around the flank of HILL "A"	1	____
(c) Moved the section to HILL "A" by moving between HILLS "A" and "B"	1	____
(d) Designated manner of movement	1	____
(9) Assigns targets to the tanks on HILL "B" against enemy moving from HILL "E"	1	____
(10) Assigns targets to the tanks on HILL "A" against enemy moving from HILL "D"	1	____
(11) Moves section on HILL "B" through lane in woods and attacks enemy flanking HILL "B"	4	____
(a) Designated manner of movement	1	____
(12) Remains on HILL "B" and has the section on HILL "A" take the enemy under fire as they round the trees on the right flank of HILL "B"	2	____
(a) Shifts fire of section on HILL "B" to HILL "C"	1	____
(13) Any action taken by the platoon leader other than that designated on the Score Sheet is worth ONE point for the entire action taken.	1	____

PROBLEM IX - (Continued)(Solution and Scoring)	Value	Score
(14) Completes problem with NO tank losses	15	_____
(15) Completes problem with ONE tank loss	10	_____
(16) Completes problem with TWO tank losses	5	_____
(17) Completes problem with THREE tank losses	2	_____
(18) Completes problem with FOUR tank losses	1	_____
POSSIBLE SCORE 54		
SCORE MADE _____		
(19) Deduct five (5) points from SCORE MADE if incorrect radio procedure was habitually used.	5	_____
TOTAL SCORE _____		

FM-17-1 Paragraphs 91 through 93, (estimate of the situation)
Paragraphs 412 through 414, 422, 424, 429a,b.
FM-17-33 Paragraphs 145, 148, 149, 154, 155, 156, 157d,e,f.

PROBLEM X - (THREE PARTS) - Advance Guard; Use of Terrain; Movement by Bounds; Atomic Explosion; Developing the Situation; Assignment of Targets; Delaying Action

(Problem is in 3 parts - 3 Terrain Changes)

1. GENERAL

a. Terrain. The terrain for this problem is continuous and necessitates two (2) changes. See Map "A" (1), (2), and (3). For Problem 1, the curtain will be closed. For Problems 2 and 3, the curtain will be open. In each instance (two) that the terrain is changed, the last terrain feature (extreme north end) will be placed at the extreme south end, indicating that the problem is continuous.

NOTE: This point will be brought to the attention of the Test Platoon prior to the start of this three-stage problem.

b. The Enemy. The enemy will consist of two (2) enemy tanks for Stage 1 and Stage 2. Stage 3 will require eight (8) tanks. However, the problem is written (See paragraph 2) so that the five (5) aggressor personnel (ASSISTANT INSTRUCTORS) can do the job. Two (2) smoke missions will be prepared; Smoke Mission Nr 1 will be fired; Smoke Mission Nr 2 will not be fired unless Test Platoon action makes it feasible (See paragraph 2). The INSTRUCTOR will control all enemy tank action through his control of the ASSISTANT INSTRUCTORS. The two (2) enemy smoke missions will be controlled by the INSTRUCTOR from his control panel. ASSISTANT INSTRUCTORS will fire "cracker-ball" ammo, and direct "killing" light beams as ordered by the INSTRUCTOR. (See Maps "A"(1), (2), and (3)). The enemy tanks will be located as shown.

c. Test Platoon. The Test Platoon will be located and sited for each of the three stages as shown on Maps "A" and "B" (1), (2), and (3). The platoon organization, after Stage 1, will be dependent upon whether or not the platoon has suffered any tank casualties. The problem will be "free play" as far as the Test Platoon is concerned. ASSISTANT INSTRUCTORS will provide "cracker-ball" ammo to simulate friendly artillery, if the platoon leader requests artillery. Two (2) smoke missions are available to the platoon; these are in Stage 3 and are located in WOODS "X" and "Y". Any other request for smoke will be denied. All Test Platoon tanks destroyed by enemy action (including those destroyed by ASSISTANT INSTRUCTORS) will remain out of action for the duration of the problem--this means ALL THREE STAGES. In the event the platoon leader is a casualty, the INSTRUCTOR will appoint the platoon sergeant to take command; if both the platoon leader and platoon sergeant become casualties, the INSTRUCTOR will designate a tank commander to assume command, with the resultant loss of communications to the team commander (INSTRUCTOR) but retaining communications over the platoon net with the remaining tanks. A NEW PLATOON LEADER WILL BE APPOINTED AT THE

BEGINNING OF EACH STAGE - no briefing will accompany this change; however, a critique of each stage will be conducted while the terrain is being changed for the next stage. Provisions of paragraph 1d below will be adhered to in each stage.

NOTE: The INSTRUCTOR will not respond to any calls made from any tank other than the platoon leader's or platoon sergeant's tank.

d. The Instructor. The INSTRUCTOR will be responsible for being completely familiar with the entire contents of this document. He will act as the Test Platoon team commander, and as controller of the enemy. The INSTRUCTOR will control all enemy fire and movement, including the use of "cracker-ball" ammo and the ASSISTANT INSTRUCTOR'S use of the spot light to knock out Test Platoon tanks, if required. The INSTRUCTOR will control all smoke missions (friendly and enemy) from his control panel. He will direct ASSISTANT INSTRUCTORS to place "cracker-ball" ammo (simulating friendly artillery) as requested by the Test Platoon commander. The CHIEF ASSISTANT INSTRUCTOR will plot all enemy and Test Platoon tank moves on a copy of Map "A". In the event the Test Platoon loses four (4) tanks to enemy action BEFORE the problem is completed, the INSTRUCTOR will appoint another platoon leader, reactivate the destroyed tanks, and run the problem again without benefit of a critique. Only completed stages of the problem will be critiqued.

2. CONCEPT OF THE PROBLEM

a. Platoon Mission. To be the advance guard for the company team, which is on a semi-independent mission, whose mission is to seize and secure the railroad bridge over the RIVER JORDAN.

b. Starting of the Problem. The problem will begin with the INSTRUCTOR and Test Platoon leader conferring on the floor in front of the control platform. All other platoon personnel will be assembled behind the platform where they cannot overhear the INSTRUCTOR and platoon leader. The INSTRUCTOR will issue the oral Operation Order to the platoon leader, and give him five (5) copies of Map "B". In the meantime (back at the ranch), the CHIEF ASSISTANT INSTRUCTOR will assign three (3) men to each tank, designating who will be driver, loader, tank commander, and platoon sergeant. (The TC in the 4th tank will be the platoon sergeant.) The platoon leader will be given 15 minutes to make his visual and map reconnaissance, brief the platoon, and issue his order to the tank commanders. During this 15 minute period, the INSTRUCTOR will alert his ASSISTANT INSTRUCTORS, check their communications, and make any final supervisory inspections necessary. When the platoon leader notifies the INSTRUCTOR that the platoon is ready to begin, the INSTRUCTOR (team commander) will order the platoon leader to "MOVE OUT". During the interval between Stage 1 and Stage 2, and between Stage 2 and Stage 3,

(while the terrain is being chenged) the INSTRUCTOR will give the Test Platoon a 10-minute break after the critique; in addition, after Stage 2 the INSTRUCTOR will check the aggressor dispositions and briefly review the aggressor action to ensure a smooth performance.

c. Stage Nr 1 (TWO PHASES)

(1) Phase 1. The Test Platoon will move forward as directed by the platoon leader. (The curtain is closed at the center of the terrain board.) No enemy action takes place during this phase. As Test Platoon (or any tanks therein) move up on HILL "D", the INSTRUCTOR will open the curtain and reveal the remainder of the terrain complex. The opening of the curtain signals the beginning of Phase 2.

(2) Phase 2. (The curtain is open.) The INSTRUCTOR will order enemy tanks 1 and 2 to fire at 1) the test tanks on HILL "D", or 2) the test maneuver (moving) element going from HILL "B" to "D". ASSISTANT INSTRUCTORS will be directed to fire cracker-ball ammunition at HILL "D", and/or at the test maneuver element. Any Test Platoon request for mortar support will be denied - "MORTAR SUPPORT NOT AVAILABLE AT THIS TIME. THEY ARE FIRING ANOTHER MISSION - OUT."

(a) If the Test Platoon maneuvers to the left (west) of WOODS "B", with a base of fire on HILL "D" or in the forward edge of WOODS "A", the INSTRUCTOR will order enemy tanks 1 and 2 to pull back out of problem, and the ASSISTANT INSTRUCTORS to cease firing "cracker-ball" ammo.

(b) If the Test Platoon attempts to maneuver to the right (east) of WOODS "H", regardless of where the base of fire is located, the INSTRUCTOR will order ASSISTANT INSTRUCTORS to destroy one (1) test tank with a light beam in the maneuver element, then order enemy tanks 1 and 2 to pull back.

(c) If the Test Platoon assaults HILL "F" frontally, or from the right (east) of WOODS "A", or through WOODS "A", without a base of fire, the INSTRUCTOR will order ASSISTANT INSTRUCTORS to destroy, with a light beam, two (2) test tanks; then order enemy tanks 1 and 2 to pull back.

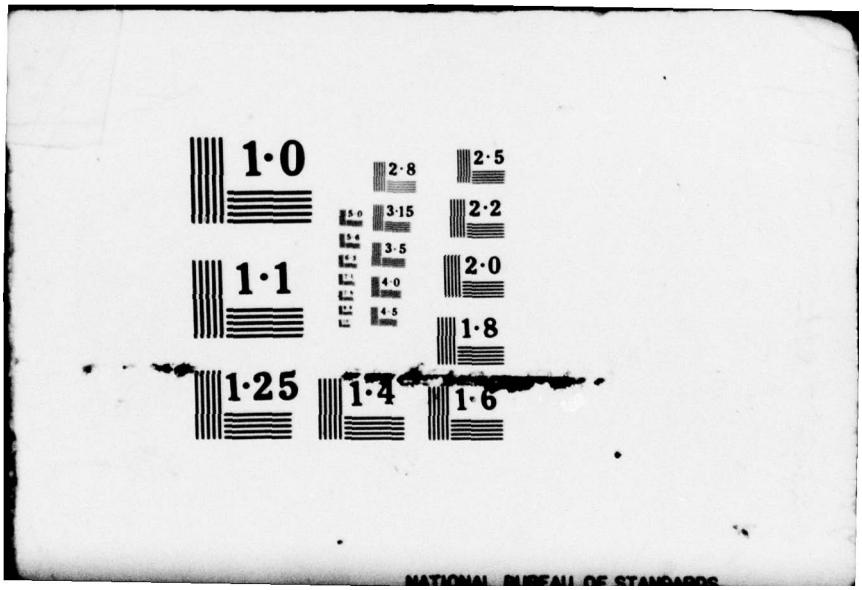
(d) If the Test Platoon maneuvers to the left (west) around WOODS "B" without a base of fire, the INSTRUCTOR will order ASSISTANT INSTRUCTORS to destroy, with a light beam, one (1) test tank as it moves in the open between WOODS "B" and HILL "D" or WOODS "A".

(e) Phase 2 ends as the Test Platoon takes positions on HILL "F". Stage 1 will be critiqued; platoon will be

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1·0
1·1
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1·8
1·6
NATIONAL BUREAU OF STANDARDS

given a 10-minute break, and the terrain for Stage 2 will be emplaced. HILL "F" will be placed as shown on Map "A"(2) and Map "B"(2), with the test tanks in the same position as at the completion of Stage Nr 1, Phase 2.

d. Stage 2. The curtain will be open, exposing the entire terrain board. The Test Platoon will take their same positions on the control platform, and operate the same tanks, EXCEPT that a new platoon leader will control the platoon from the platoon leader's tank. When the platoon is ready, the INSTRUCTOR (team commander) will order, "MOVE OUT."

(1) Phase 3. Phase 3 begins when the platoon, or any portion of the platoon, begins to move OFF HILL "F". Regardless of the Test Platoon combat formation, or method of advance, no enemy action will be used until the lead tank (or tanks) begins to take position on HILL "J". At this time, the INSTRUCTOR will order enemy tanks Nr 1 and 2 to open fire; and the INSTRUCTOR will order ASSISTANT INSTRUCTORS to fire "cracker-ball" ammo at the forward slope of HILL "J". Phase 3 ends when the Test Platoon is on HILL "J".

(2) Phase 4. Phase 4 begins when the Test Platoon is on HILL "J"; or if the Test Platoon begins to maneuver around HILL "J".

(a) If the Test Platoon, or any tanks therein, begin to move north on COOK ROAD, off HILL "J", the INSTRUCTOR will order ASSISTANT INSTRUCTORS to destroy these tanks (lead tank first) with a light beam. "Cracker-ball ammo will also be used. The same procedure will be used on any test tank which moves over the crest of HILL "J".

(b) If the Test Platoon requests supporting fires placed on HILL "G", the request will be denied - "BATTALION MORTAR PLATOON IS FIRING ANOTHER MISSION - OUT."

(c) If the Test Platoon uses a base of fire on HILL "J", and maneuvers another section either to the right or left of HILL "J" to either the right or left of HILL "G", the INSTRUCTOR will continue having ASSISTANT INSTRUCTORS fire "cracker-ball" ammo, and enemy tanks Nr 1 and 2 continue firing until the test maneuver element has covered three-fourths of the distance between HILLS "J" and "G". Then the INSTRUCTOR will order enemy tanks Nr 1 and 2 to pull back, and ASSISTANT INSTRUCTORS to cease firing cracker-ball ammo.

NOTE: The Test Platoon maneuver element must assault the same flank it attacks from, i.e., if the maneuver element moves around the right (east) base of HILL "J", it must assault the right (east) side of enemy-held HILL "G". If the maneuver element crosses to the

left (west) side of HILL "G", the INSTRUCTOR will cause two (2) tanks of the maneuver element to be destroyed by ASSISTANT INSTRUCTOR light beams.

(d) If the Test Platoon maneuvers the entire platoon (or what is left of it at this point) either right or left of HILL "J" without a base of fire, the INSTRUCTOR will cause two (2) tanks to be destroyed by light beams.

(e) If the Test Platoon has but two (2) tanks remaining in the platoon, and these are assaulting HILL "G", the INSTRUCTOR will permit enemy tanks 1 and 2 and the two remaining test tanks to maneuver and fight the battle with light beams, from their gun tubes, until the bitter end.

(f) Phase 4 ends with the occupation of HILL "G" by Test Platoon tanks, or as specified in paragraph 1d above. The same procedure as outlined in paragraph 2c(2)(e) above will be followed at this point, EXCEPT that HILL "F" will be placed at the south end of the terrain board, with test tanks located in the same positions they occupied at the end of Phase 4. The remainder of the terrain board will be set up as shown on Maps "A"(3) and "B"(3).

e. Stage 3. The curtain will be open, exposing the entire terrain complex. The Test Platoon (or remaining portion thereof) will take the same positions on the control platform and operate the same tanks, EXCEPT that a new platoon leader will command the platoon from the platoon leader's cubicle. When the platoon is ready, the INSTRUCTOR will order, "MOVE OUT."

(1) Phase 5. Phase 5 begins with the Test Platoon in position on HILL "G". No enemy action will take place as the platoon moves from HILL "G" to HILL "H", regardless of the combat formation or method of advance. However, the INSTRUCTOR, at the first indication that a move off HILL "G" is forthcoming, will call the Test Platoon leader and say, "I HAVE JUST RECEIVED NOTIFICATION THAT A FRIENDLY ATOMIC DEVICE WILL BE DETONATED IN TEN MINUTES IN THE AREA BETWEEN WOODS "X" AND WOODS "Y" NORTH OF THE RAILROAD TRACKS. I WILL GIVE YOU THE COUNT-DOWN AT "H MINUS ONE." TAKE ALL NECESSARY PRECAUTIONS. OVER."

(a) At "H MINUS ONE" the INSTRUCTOR will inform the platoon leader "ONE MINUTE." At "H MINUS 30 SECONDS" the INSTRUCTOR will inform the platoon leader, "THREE ZERO SECONDS." At "H MINUS 10 SECONDS", the INSTRUCTOR will give the platoon leader the final count-down, "10-9-8-7-6-5-4-3-2-1-0." At "0" the INSTRUCTOR will set off the atomic simulator. Fifteen seconds later, the INSTRUCTOR will inform the platoon leader, "ALL CLEAR. CONTINUE ON MISSION."

PROBLEM X - (Continued)

(b) No enemy action will take place as the Test Platoon moves from HILL "G" to HILL "H", regardless of the combat formation or method of attack used. However, as the Test Platoon (or any part thereof) begins to move toward HILL "I", the INSTRUCTOR will fire the two enemy AT guns in WOODS "Y", and order ASSISTANT INSTRUCTORS to fire "cracker-ball" ammo at the advancing tanks. Then, the INSTRUCTOR will order enemy tanks 4 and 5 to move out and occupy positions indicated on Map "A"(3), and fire at test tanks on HILL "I". An ASSISTANT INSTRUCTOR will be ordered to fire "cracker-ball" ammo at HILL "I", while the other ASSISTANT INSTRUCTOR fires "cracker-ball" ammo at HILL "H".

(c) If the platoon leader requests smoke on WOODS "X" and "Y", the INSTRUCTOR will honor this request.

NOTE: Only ONE firing of smoke is available.

(d) If the platoon leader does not move the tanks from HILL "H" to HILL "I", so as to consolidate his platoon on HILL "I", the INSTRUCTOR will call the platoon leader and inquire into the reason for the hold-up, and then tell him to get moving.

(e) If the platoon leader orders the tanks on HILL "H" to maneuver to the right (east) of HILL "J", the INSTRUCTOR will cause these tanks to be destroyed by use of ASSISTANT INSTRUCTOR'S light beam, and then instruct enemy tanks 1, 2, and 3 to execute Plan Nr 1. (INSTRUCTOR will set off enemy smoke screen Nr 1.)

1. If, under the conditions cited in (e) above, the remaining test tanks on HILL "I" choose to remain on HILL "I", the INSTRUCTOR will fire enemy smoke screen Nr 2, and order enemy tanks 1, 2, and 3 to execute Plan Nr 2. Destroy with light beam tanks on HILL "I".

2. If, under the conditions cited in (e) above, the test tanks on HILL "I" choose to fall back to HILL "H", the INSTRUCTOR will fire enemy smoke Nr 2, and order enemy tanks 1, 2, and 3 to execute Plan Nr 3. Destroy with light beam tanks on Hill "H".

(f) If the entire platoon (or what remains of it) is located on HILL "I", the INSTRUCTOR will fire enemy smoke Nr 1, and order enemy tanks 1, 2, and 3 to execute Plan Nr 1.

PROBLEM X - (Continued)

1. If, under these conditions, the platoon leader requests permission to move back, the INSTRUCTOR will order, "PERMISSION GRANTED, MOVE BACK TO HILL "G" AND SET UP BASE OF FIRE. THE TEAM WILL ATTACK IN 10 MINUTES. OVER."

2. If the friendly smoke mission on WOODS "X" and "Y" have not been previously fired, and the platoon leader requests smoke on the woods, the INSTRUCTOR will honor the request; otherwise, the request will be denied as not available.

3. If the platoon moves one section to HILL "H" while the remaining section on HILL "I" attempts to engage the enemy element behind the screen (or while on HILL "J") no platoon casualties will be assessed. (However, some may occur naturally.) Then, if the remaining section on HILL "I" moves back to HILL "G", under protection of tanks on HILL "H", no casualties will be assessed; and if the section on HILL "H" moves back to HILL "G" under protection of section on "G", no casualties will be assessed.

4. If the platoon moves one section to HILL "H", and then moves the other section to HILL "H", the INSTRUCTOR will, when the second section is committed to ascending HILL "H, fire enemy smoke Nr 2, and order enemy tanks 1, 2, and 3 to execute Plan Nr 3. Plan Nr 3 will also be used if the Test Platoon moves as a unit to HILL "H".

5. If the Test Platoon moves one section from HILL "I" to HILL "G", the INSTRUCTOR will cause one tank on HILL "I" to be destroyed by ASSISTANT INSTRUCTOR'S light beam. Then as the other tanks on HILL "I" attempt to pull back to either HILL "H" or HILL "G", the INSTRUCTOR will cause them to be destroyed by ASSISTANT INSTRUCTOR light beams.

6. If the Test Platoon attempts to move the entire platoon from HILL "I" to HILL "G", the INSTRUCTOR will cause three (3) tanks to be destroyed by ASSISTANT INSTRUCTOR'S light beams.

PROBLEM X - (Continued)

3. OPERATION ORDER (To be issued orally to the platoon leader, along with five (5) copies of Map "B")

a. Enemy. AN ENEMY ARMORED FORCE HAS BEEN CONDUCTING A DELAYING ACTION FOR THE PAST 24 HOURS. THEIR TACTICS HAVE BEEN MORE ANNOYING THAN EFFECTIVE, YET THE FEELING PREVAILS THAT THEY ARE JUST WAITING FOR THE PROPER MOMENT TO LAUNCH A COUNTERATTACK.

b. Friendly. OUR TEAM HAS BEEN ADVANCING QUITE RAPIDLY AGAINST SPORADIC RESISTANCE. THE MISSION OF OUR TEAM IS TO SEIZE THE RAILROAD BRIDGE OVER THE RIVER JORDAN. THE TEAM IS ADVANCING IN COLUMN. THE FIRST PLATOON IS THE ADVANCE GUARD.

(1) FIRST PLATOON, YOUR MISSION IS TO BE THE ADVANCE GUARD FOR OUR TEAM WHICH IS ON A SEMI-INDEPENDENT MISSION. BE ALERT FOR AN ENEMY COUNTERATTACK WHEN YOU REACH THE VICINITY OF HILL "I".

(2) YOU WILL NOT HAVE ANY ATTACHMENTS.

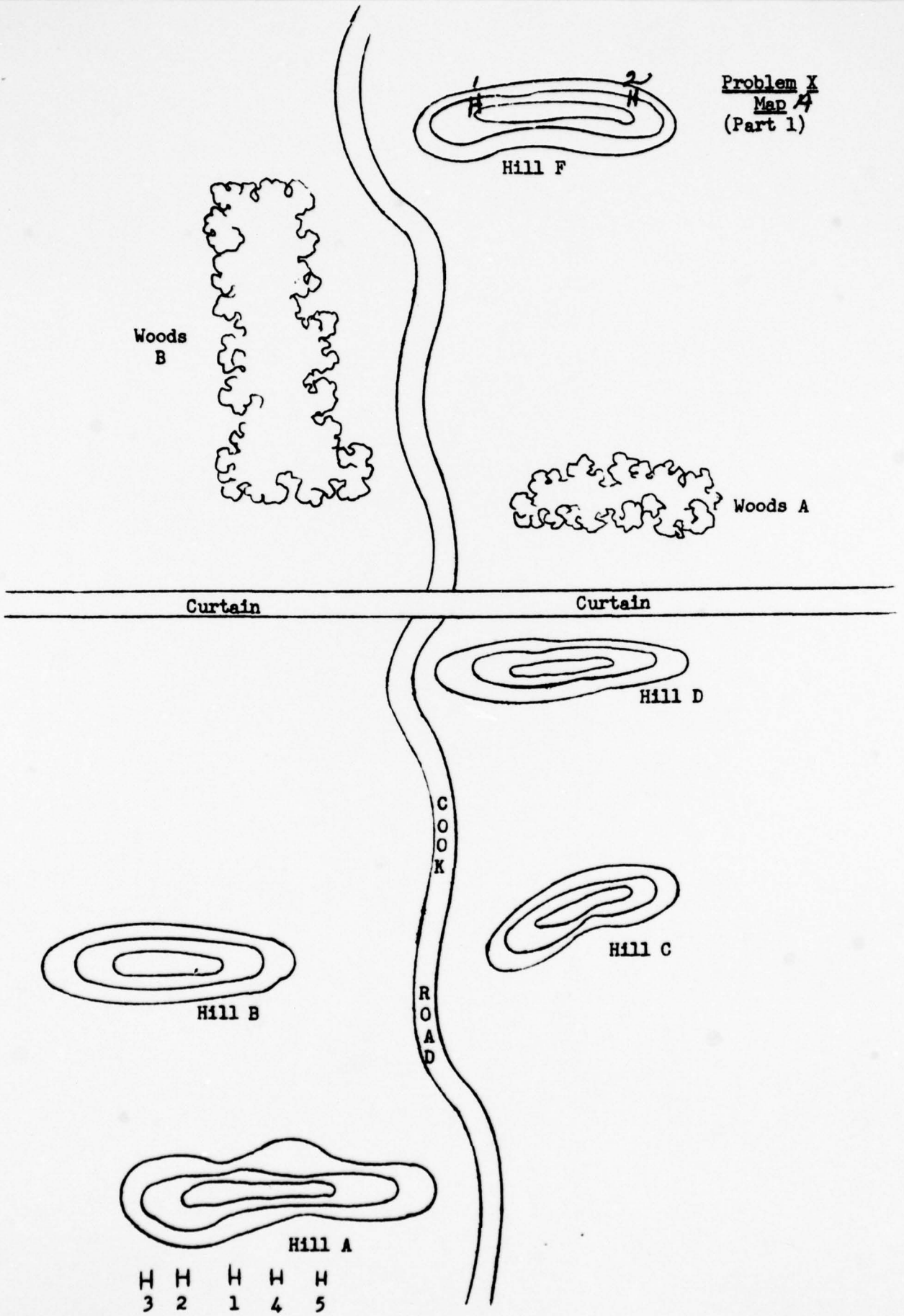
(3) THE BATTALION MORTAR PLATOON WILL BE IN GENERAL SUPPORT, WITH PRIORITY OF FIRES FOR YOUR PLATOON.

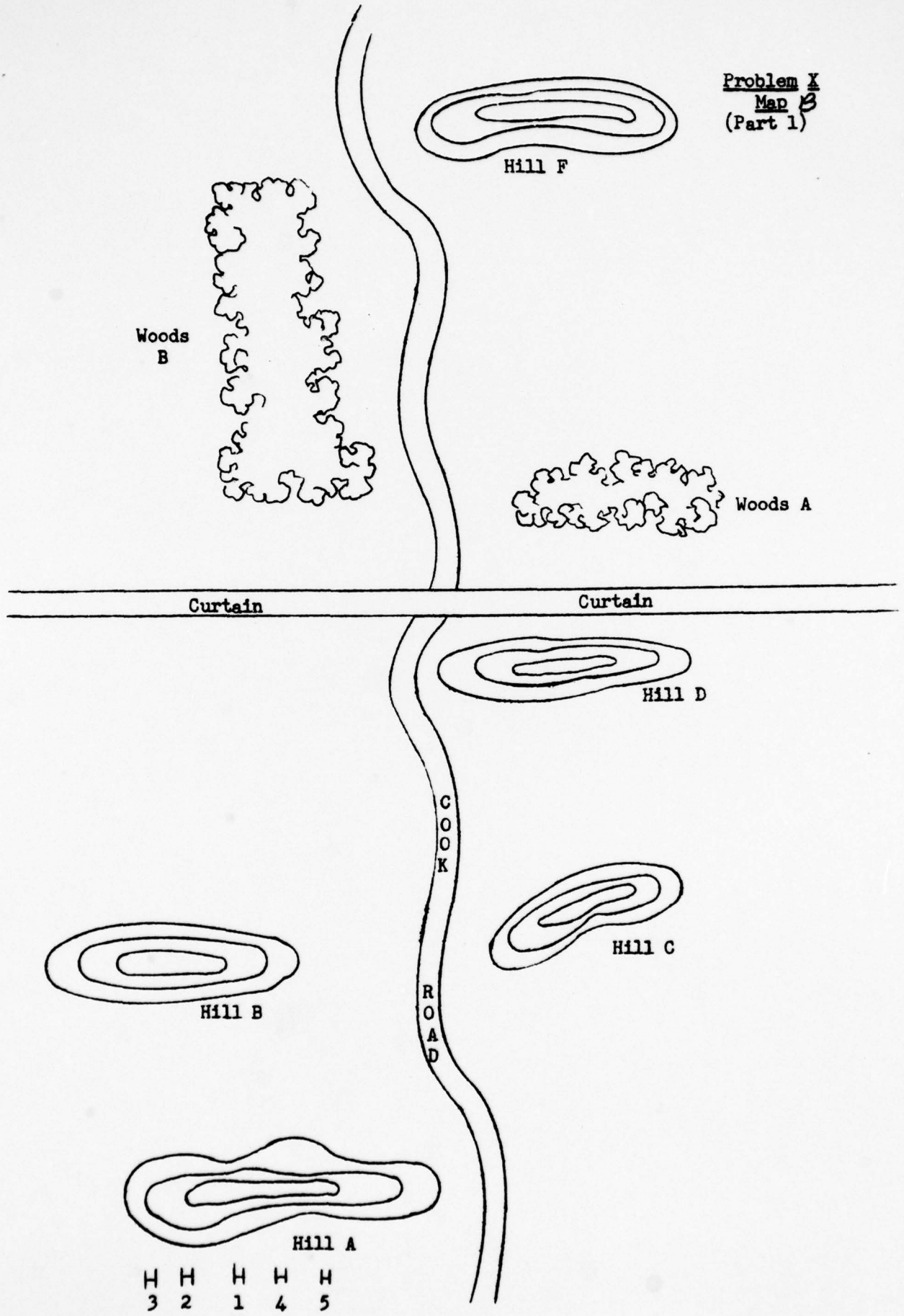
(4) I WILL BE WITH THE SECOND PLATOON.

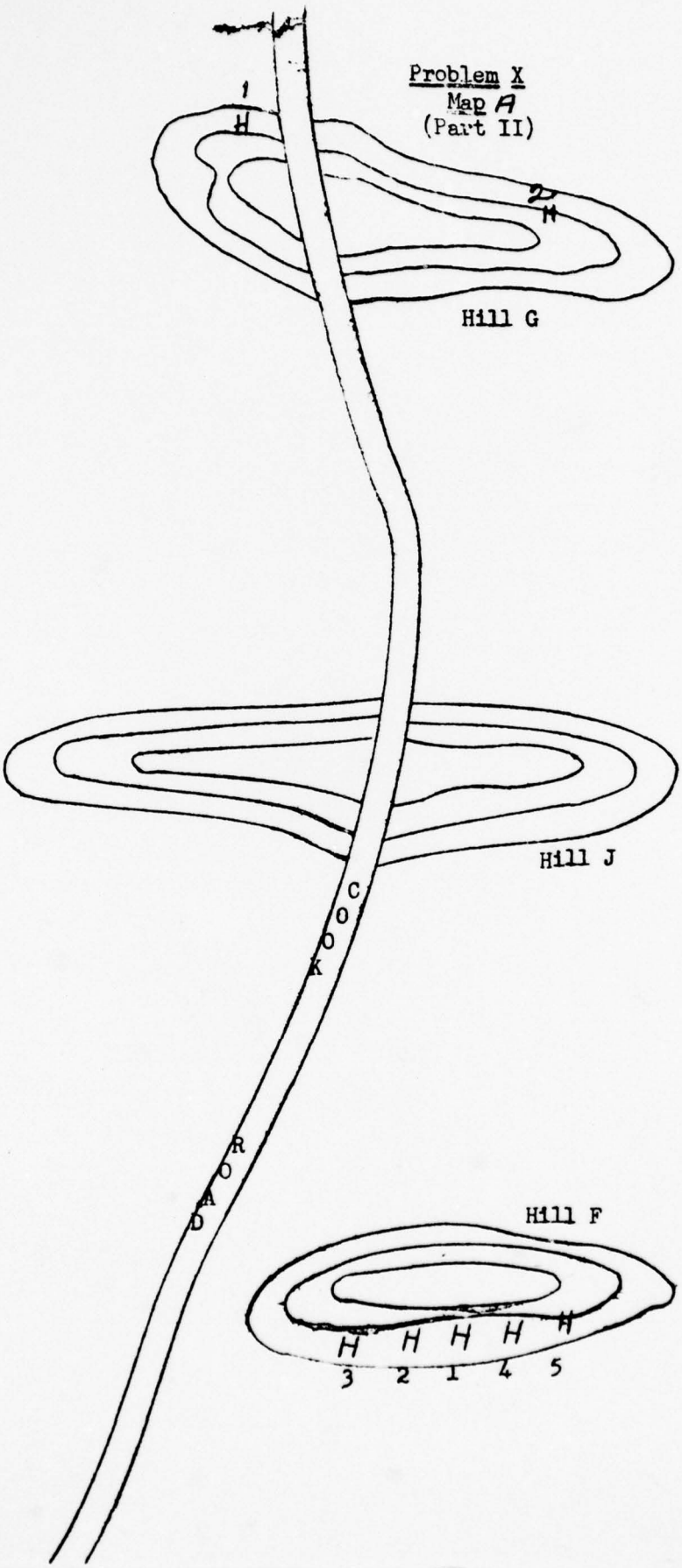
(5) IT IS NOW _____ HOURS.

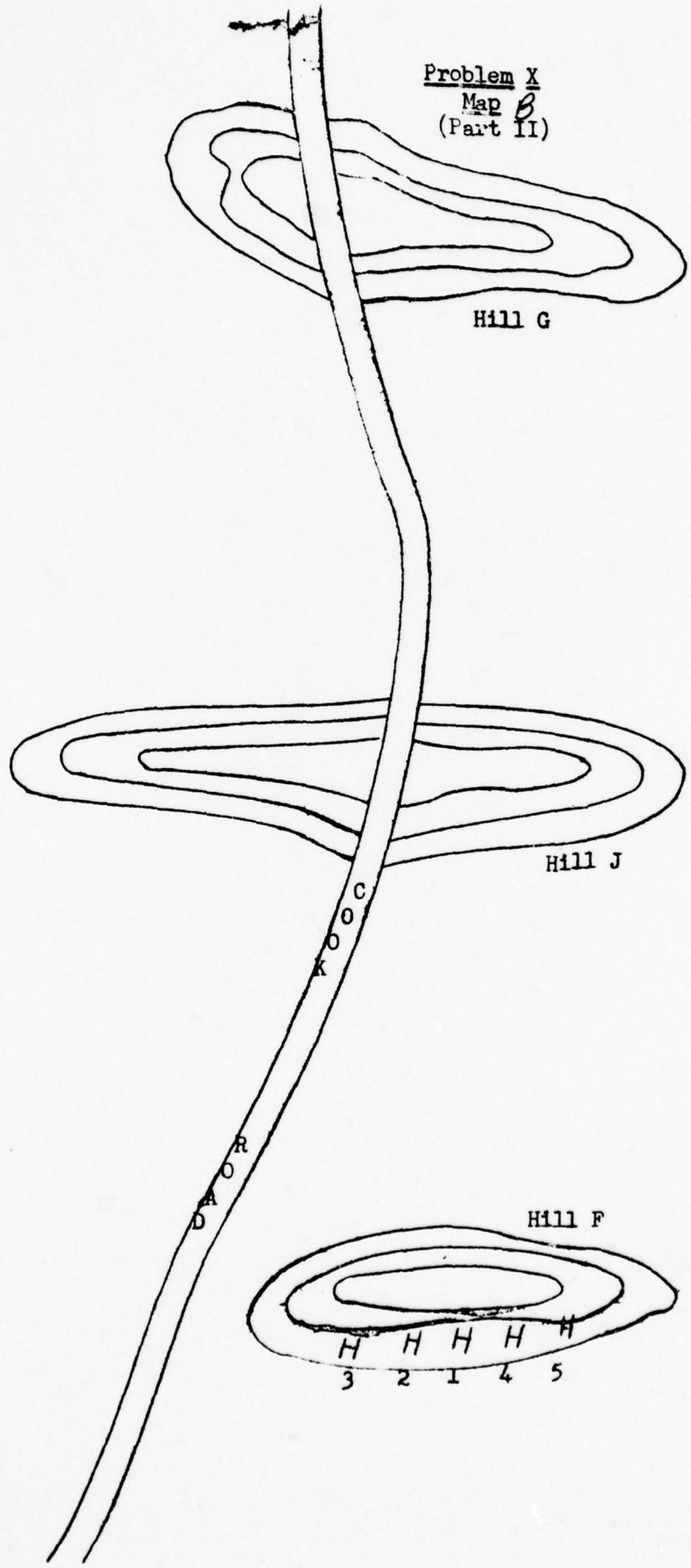
(6) ANY QUESTIONS?

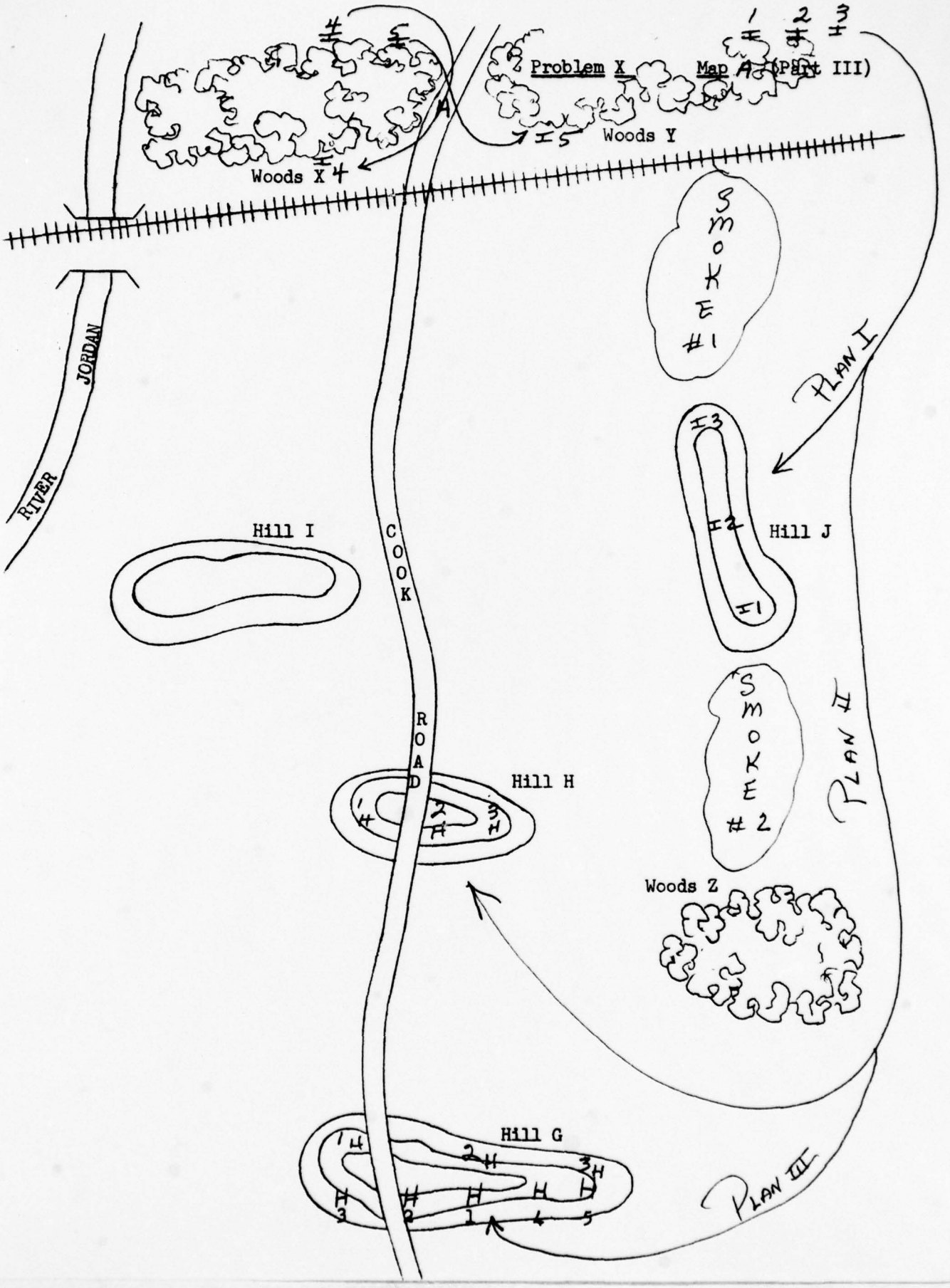
(7) REPORT WHEN READY TO MOVE OUT.

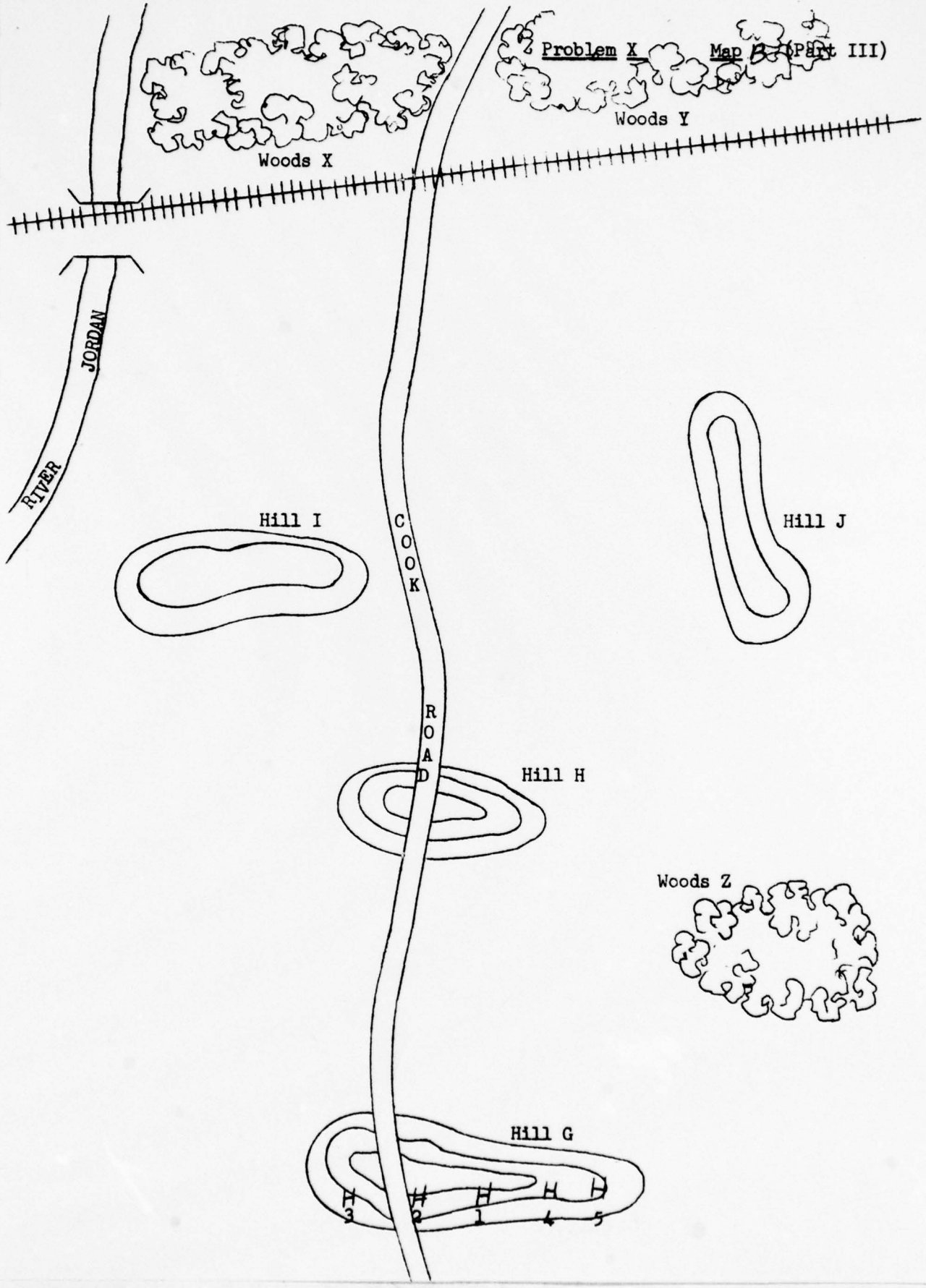

Problem X
Map A
(Part 1)
Hill F
Woods
B
Woods A
Curtain
Curtain
Hill D
COOK
ROAD
Hill C
Hill B
Hill A
H 3
H 2
H 1
H 4
H 5


Problem X
Map B
(Part 1)
Hill F
Woods
B
Woods A
Curtain
Curtain
Hill D
COOK
ROAD
Hill C
Hill B
Hill A
H 3
H 2
H 1
H 4
H 5


Problem X
Map A
(Part II)
1
H
2
H
Hill G
Hill J
C
O
O
K
R
O
A
D
Hill F
H H H H H
3 2 1 4 5


Problem X
Map B
(Part II)
Hill G
Hill J
C
O
O
K
R
O
A
D
Hill F
H H H H H
3 2 1 4 5


Problem X Map A (Part III)
Woods X
Woods Y
Woods Z
SMOKE #1
SMOKE #2
PLAN I
PLAN II
PLAN III
RIVER JORDAN
COOK ROAD
Hill I
Hill J
Hill H
Hill G


Problem X Map B (Part III)
Woods Y
Woods X
JORDAN
RIVER
Hill I
COOK
ROAD
Hill J
Hill H
Woods Z
Hill G
H 3
H 2
H 1
H 4
H 5

PROBLEM X - Continued

4. SOLUTION AND SCORING

PART I	Value	Score
(1) Moves entire platoon to HILL "A"	½	____
(2) Moves section to HILL "A"	2	____
(a) Designates manner of movement	1	____
(b) Reported when in position	1	____
(3) Moved section to HILL "B" or "C"	1	____
(a) Moved around flank of HILL "A"	1	____
(b) Moved in line or wedge formation	1	____
(c) Designated manner of movement	1	____
(d) Reported when in position	1	____
(4) Moved section on HILL "A" to HILL "B" or "C"	1	____
(a) Moved around flank of HILL "A"	1	____
(b) Designated manner of movement	1	____
(c) Reported when in position	1	____
(5) Moved section on HILL "C" to HILL "D"	2	____
(a) Moved around the flank of HILL "C"	2	____
(b) Designated manner of movement	1	____
(c) Reported when in position	1	____
(6) Moved section from HILL "B" to HILL "D"	1	____
(a) Moved around flank of HILL "B"	1	____
(b) Moved to HILL "D" in echelon left formation	1	____
(c) Designated manner of movement	1	____
(7) Reports position to team commander	1	____

PROBLEM X - (Continued)(Solution and Scoring)	Value	Score
(8) Any action taken by the platoon leader other than that designated in the Scoring Sheet is worth ONE point for the entire action taken.	1	____

PART I POSSIBLE SCORE 24

SCORE MADE _____

PART II

(1) Reconnoiters WOODS "A" by fire	1	____
(2) Reconnoiters WOODS "B" by fire	1	____
(3) Sets up base of fire on HILL "D"	1	____
(a) Designates tanks to act as base of fire	1	____
(4) Moves section to HILL "F"	2	____
(a) Moves around flank of HILL "D"	1	____
(b) Moves around left flank of WOODS "B"	1	____
(c) Designates manner of movement	1	____
(5) Requests supporting fires on HILL "F"	1	____
(6) Moves from WOODS "B" to HILL "F"	2	____
(a) Moves in line or wedge formation	1	____
(b) Assigns targets for section	1	____
(c) Designates manner of movement	1	____
(7) Lifts supporting fires before reaching HILL "F"	1	____
(8) Orders base of fire, CEASE FIRE	1	____
(9) Moves base of fire to HILL "F"	1	____
(a) Designates manner of movement	1	____

PROBLEM X - (Continued)(Solution and Scoring)	Value	Score
(10) Reports to team commander	1	____
(11) Any action taken by the platoon leader other than that designated in the Scoring Sheet is worth ONE point for entire action taken.	1	____

PART II POSSIBLE SCORE 20

SCORE MADE _____

PART III

(1)	Requests supporting fire on HILL "G"	1	____
(2)	Moved maneuver section to HILL "J"	2	____
	(a) Moved around flank of HILL "F"	1	____
	(b) Moved in line or wedge formation	1	____
	(c) Designates tanks to act as base of fire	1	____
	(d) Designates manner of movement	1	____
(3)	Moved base of fire from HILL "F" to HILL "J"	1	____
	(a) Moved around flank of HILL "F"	1	____
	(b) Designates manner of movement	1	____
(4)	Moved entire platoon to HILL "J"	1	____
	(a) Moved around flank(s) of HILL "F"	1	____
	(b) Moved in line or wedge formation	1	____
(5)	Moved maneuver section to HILL "G"	2	____
	(a) Moved around either flank of HILL "J"	1	____
	(b) Moved in line or wedge formation	1	____
	(c) Designates tanks to act as base of fire	1	____
	(d) Designates manner of movement	1	____

PROBLEM X - (Continued)(Solution and Scoring)	Value	Score
(6) Moved entire platoon to HILL "G"	1	____
(a) Moved around flank(s) of HILL "J"	1	____
(b) Moved in line or wedge formation	1	____
(7) Continued supporting fire on HILL "G" after reaching HILL "J"	1	____
(8) Lifts supporting fire on reaching HILL "G"	1	____
(9) Orders base of fire to CEASE FIRE	1	____
(10) Moves base of fire to HILL "G"	1	____
(a) Moves around flank of HILL "J"	1	____
(b) Designates manner of movement	1	____
(11) Reports to team commander	1	____
(12) Any action taken by the platoon leader other than that designated in the Scoring Sheet is worth ONE point for the entire action taken.	1	____

PART III POSSIBLE SCORE 23

SCORE MADE _____

PART IV

(1) Reconnoiters WOODS "Z" by fire	1	____
(2) Alerts the platoon that atomic blast is due in ten (10) minutes	1	____
(3) Issues orders to the platoon to prepare for the atomic blast	1	____
(a) Orders tanks to halt and pull back to HILL "G"	1	____
(b) Orders platoon to back down off the crest of HILL "G" into turret defilade position	1	____

PROBLEM X - (Continued)(Solution and Scoring)	Value	Score
(c) Orders platoon to keep their main guns traversed over the rear deck away from the blast	1	____
(d) Orders platoon to "button-up" all hatches	1	____
(e) Orders platoon to pull all periscopes	1	____
(f) Orders platoon to shield their eyes on "count-down" and keep them shielded ultil the ALL CLEAR	1	____
(4) Alerts the platoon on the ALL CLEAR	1	____
(a) Orders platoon to prepare to move out, etc.	1	____
(5) Moves maneuver section to HILL "H"	1	____
(a) Moves around flank of HILL "G"	1	____
(b) Moves in line or wedge formation	1	____
(c) Designates manner of movement	1	____
(d) Designates tanks to act as base of fire	1	____
(6) Moves base of fire to HILL "H"	1	____
(a) Moves around flank of HILL "G"	1	____
(b) Designates manner of movement	1	____
(7) Moves entire platoon to HILL "G"	1	____
(a) Moves around flank(s) of HILL "G"	1	____
(b) Moves in line or wedge formation	1	____
(8) Moves section from HILL "H" forward	3	____
(a) Moves around flank of HILL "H"	1	____
(b) Moves in line or wedge formation	1	____
(c) Designates manner of movement	1	____
(d) Designates tanks to act as base of fire	1	____

PROBLEM X - (Continued)(Solution and Scoring)	Value	Score
(9) Moves entire platoon forward from HILL "H"	2	____
(a) Moves around flank(s) of HILL "H"	1	____
(b) Moves in line or wedge formation	1	____
(10) Deploys platoon or section to HILL "I" after receiving enemy fire	2	____
(a) Designates manner of movement	1	____
(11) Moves base of fire on HILL "H" to HILL "I"	1	____
(a) Moves around left flank of HILL "H"	1	____
(b) Designates manner of movement	1	____
(12) Designates targets for platoon	1	____
(a) Section on right side of HILL "I" takes targets in WOODS "Y"	1	____
(b) Section on left side of HILL "I" takes targets in WOODS "X"	1	____
(c) Section on HILL "I" takes targets in WOODS "X"	1	____
(d) Section on HILL "H" takes targets in WOODS "Y"	1	____
(13) Reports situation to team commander	1	____
(a) Requests permission from team commander to pull back	2	____
(14) Requests supporting fires on WOODS "X" and "Y"	1	____
(15) Orders section on right side of HILL "I" to shift fire to enemy moving behind the smoke screen towards HILL "L"	2	____
(a) Orders section on HILL "H" to shift fire to enemy moving behind the smoke screen towards HILL "L"	2	____
(16) Requests smoke on WOODS "X" and "Y" to screen move back	1	____

PROBLEM X - (Continued)(Solution and Scoring)	Value	Score
(17) Moves section on HILL "I" to HILL "H" to cover flank	3	____
(a) Moves to HILL "H" with guns traversed toward exposed flank	1	____
(b) Moves around flank of HILL "H" to get into position	1	____
(c) Designates manner of movement	1	____
(d) Designates tanks to act as base of fire	1	____
(e) Section reports when in position on HILL "H"	1	____
(f) Moves section on left side of HILL "I" to HILL "H"	1	____
(18) Moves remaining section on HILL "I" to HILL "H"	1	____
(a) Moves to HILL "H" with guns traversed toward exposed flank	1	____
(b) Moves around flank of HILL "H" to get into position	1	____
(c) Designates manner of movement	1	____
(19) Moves entire platoon from HILL "I" to HILL "H"	2	____
(a) Moves to HILL "H" with guns traversed toward exposed flank	1	____
(b) Moves in echelon left formation	1	____
(c) Moves around right flank of HILL "H" to get into position	1	____
(20) Moves section on HILL "H" to HILL "G"	3	____
(a) Moves to HILL "G" with guns traversed to cover exposed flank	1	____
(b) Moves around the flank of HILL "G" to get into position	1	____
(c) Designates manner of movement	1	____

PROBLEM X - (Continued)(Solution and Scoring)	Value	Score
(d) Designates tanks to act as base of fire	1	____
(e) Section reports when in position on HILL "G"	1	____
(f) Moves section on left side of HILL "H" to HILL "G"	1	____
(21) Moves remaining section on HILL "H" to HILL "G"	1	____
(a) Moves to HILL "G" with guns traversed to cover exposed flank	1	____
(b) Moves around flank of HILL "G" to get into position	1	____
(c) Designates manner of movement	1	____
(22) Moves entire platoon from HILL "H" to HILL "G"	2	____
(a) Moves to HILL "G" with guns traversed to cover exposed flank	1	____
(b) Moves in echelon left formation	1	____
(c) Moves around right flank of HILL "G" into position	1	____
(23) Moves section from HILL "I" to HILL "G" with section in place on HILL "H"	3	____
(a) Moves to HILL "G" with guns traversed to cover exposed flank	1	____
(b) Moves in echelon left or wedge formation	1	____
(c) Designates manner of movement	1	____
(d) Moves around flank of HILL "G" to get into position	1	____
(24) Lifts supporting fire on reaching HILL "G" with entire platoon	1	____
(25) Reports to team commander that platoon is now in position on HILL "G"	1	____

PROBLEM X - (Continued)(Solution and Scoring)	Value	Score
(26) Assigns areas of fire to individual tanks in his platoon	1	____
(27) Any action taken by the platoon leader other than that designated in the Scoring Sheet is worth ONE point for the entire action taken.	1	____
(28) Completed the four-phase problem with NO tank losses.	15	____
(29) Completed the four-phase problem with ONE tank loss	10	____
(30) Completed the four-phase problem with TWO tank losses	5	____
(31) Completed the four-phase problem with THREE tank losses	2	____
(32) Completed the four-phase problem with FOUR tank losses	1	____

PART IV POSSIBLE SCORE 82

SCORE MADE _____

POSSIBLE SCORE FOR ENTIRE FOUR-PART PROBLEM 149

SCORE MADE FOR ENTIRE FOUR-PART PROBLEM _____

(33) Deduct five (5) points from SCORE MADE FOR ENTIRE FOUR-PART PROBLEM if incorrect radio procedure was <u>habitually</u> used. 5

TOTAL SCORE FOR ENTIRE FOUR-PART PROBLEM _____

FM-17-1 Paragraphs 91 through 93, (estimate of the situation) paragraphs 119, 412 through 414, 422, 424, 429a,b.
FM-17-33 Paragraphs 69, 114, 116, 135, 145, 148, 149, 154, 155, 156, 157d,e,f.

FM-17-1 Paragraphs 91 through 93, (estimate of the situation) paragraphs 119, 412 through 414, 422, 424, 429a.b.

FM-17-33 Paragraphs 69, 114, 116, 135, 145, 148, 149, 154, 155, 156, 157d,e,f.

TANK PLATOON COMBAT READINESS CHECK

Approved for public release;
distribution unlimited

TABLE OF CONTENTS, PHASE III

Section I. General 1
References 1
Purpose 1
Objectives 1
Administration 1
Preparation of the Test 1
Modifications 1
Section II. Test Synopsis 2
Pretest Activities 2
Night Movement to an Assembly Area and Attack Position 2
Occupation of the Assembly Area - Attack Position 2
Attack of First Objective 2
Attack of Second Objective 2
Occupation and Reorganization on the Second Objective 2
Delaying Action 2
Defense 2
Critique 3
Section III. The Test Problem 3
General 3
Night Movement to the Assembly Area and Attack Position 3
General 3
The Warning Order 3
Scorer 3
OIC 4
Attack of First Objective 4
Scenario and Schedule of Events 4
The Attack Order 4
Conduct of the Attack 5
Attack of the Second Objective 5
Scenario and Schedule of Events 5
Delaying Action 6
General 6
Schematic Diagram of Action 6
Defense 7
Critique 7
Section IV. Equipment and Personnel Requirements 7
Troop Requirements 7
Ammunition Requirements 8
Vehicle Requirements 8
Maps 8
Section V. Scoring and Rating System 9
Scoring 9
General 9
Scoring Method 9
Score Achieved 9
Rating 9
Section VI. Duties of the Scorer 9
General 9
Method of Scoring 9
Chief Scorer 10

Assistant Scorer 10
Scoring Instructions 10
Section VII. Score Sheet 10
Identification Form 10
Night Movement to Assembly Area - Attack Position 11
Occupation of the Assembly Area - Attack Position 12
Attack of First Objective 12
Preparation and Planning Before the Attack 12
Movement to the Friendly Forward Disposition 13
Conduct of the Attack on the First Objective 14
Actions Before, During, and Immediately after the Nuclear Blast 15
Attack of the Second Objective 16
Delaying Action Phase 18
First Aggressor Attack 18
Second Aggressor Attack 19
Area Defense 20
Critique 21

SECTION I. GENERAL

A. REFERENCES. US Army Armor School: Armor Reference Data; Department of the Army: FM 17-1, FM 17-12, FM 17-33, FM 17-50, FM 17-79, and FM 17-100.

B. PURPOSE. To determine the combat readiness of tank platoons under operational conditions which simulate typical combat type missions.

C. OBJECTIVES.

1. To determine whether or not the tank platoon is combat ready.

2. To determine the capability of the tank platoon to accomplish its assigned mission.

3. To isolate and identify specific areas in which the tank platoon, as a whole unit, requires additional training to bring it to a state of combat readiness.

4. To provide the tank platoon with a realistic combat training problem involving tank platoon functions and actions.

D. ADMINISTRATION.

1. Preparation of the Test.

a. Any terrain may be used which will provide an assembly area and two objectives.

b. Platoon leaders and platoons will not be briefed, or rehearsed, on the test problem.

c. The test problem (SECTION III) will be followed as closely as local conditions will permit.

d. The test problem is a blank-firing type exercise. Both the platoon being tested and the troops which represent the enemy will use blank ammunition (SECTION IV).

e. Score sheets (SECTION VII) will not be modified, except as noted in Paragraph D2 below.

f. Personnel assigned as scorers (SECTION VI) will come from organizations other than the unit being tested.

NOTE: The method of scoring is designed to eliminate any need for a scorer to express an opinion or make a decision based on his judgment of a situation.

2. Modifications.

a. Score sheets may be modified only when modifications are dictated by local conditions. Terrain may differ from that visualized in the

test problem, necessitating different platoon formations and tactics. In this event, the headquarters which prepares the test site and score sheets is authorized to select the approved platoon formations from the items provided on the score sheet for this purpose.

b. The officer in charge (OIC) will act as team commander and as the aggressor commander. He will feed messages to the platoon which is being tested and will give instructions to the aggressor force, in accordance with instructions contained in the test problem (SECTION III).

SECTION II. TEST SYNOPSIS

A. PRETEST ACTIVITIES. The platoon being tested has previously been subjected to Phases I and II of the test, and has returned to a selected bivouac area where after-operations maintenance will be conducted. The platoon will make all necessary preparations to spend the night in the field.

B. NIGHT MOVEMENT TO AN ASSEMBLY AREA AND ATTACK POSITION. Between 2400 hours and 0300 hours, the OIC will give the tested platoon leader a warning order. The tank platoon will make a tactical march from the bivouac area to the assembly area - attack position. The platoon will be tested on all aspects of the night march.

C. OCCUPATION OF THE ASSEMBLY AREA - ATTACK POSITION. The platoon will move into and occupy the assembly area, and will be tested on all phases of the occupation, including preparations for the attack scheduled at dawn.

D. ATTACK OF FIRST OBJECTIVE. The platoon moves across the friendly forward disposition (FFD), and attacks the company's first objective. The platoon continues the attack toward the second objective, when the platoon leader receives a message from the OIC informing him that a friendly nuclear weapon will be fired beyond the second objective. The platoon will be tested on its actions in attacking the first objective, and its actions before, during, and after the friendly nuclear blast.

E. ATTACK OF SECOND OBJECTIVE. Upon receiving the ALL CLEAR, the platoon will continue the attack on the second objective. The platoon will be tested on all aspects of the attack.

F. OCCUPATION AND REORGANIZATION ON THE SECOND OBJECTIVE. The platoon will be tested on its reorganization on the second objective, the provisions for its defense against a counterattack, and its preparations to support the company attack by fire.

G. DELAYING ACTION. Enemy tanks and infantry, in strength, counterattack. The tested tank platoon is ordered to delay back to a designated delay position. The platoon will be tested on all phases of this action.

H. DEFENSE. On arriving at the first objective, the platoon is ordered to hold this position until 2400 hours. The platoon will be tested on all facets of organizing for defense, including repelling an attack.

I. CRITIQUE. A critique will be held as soon as practicable after the test is terminated.

SECTION III. THE TEST PROBLEM

A. GENERAL.

1. The platoon to be tested has previously been through Phases I and II of the test, and is now in a bivouac area. The platoon knows it is going to be committed to combat, but it does not know when. Normal platoon preparations for combat activities will be performed. The platoon will be bedded down for the night. Normal security procedures will be followed. The situation is tactical.

2. The OIC is also team commander and aggressor commander, and as such will control the actions of both sides during the test in accordance with the test problem.

3. Sample orders and activating messages are included as examples. Messages will be prepared so that the orders and messages will be appropriate to local terrain conditions.

4. The enemy has local air superiority.

5. The SOP, FM 17-1, pages 390-401, will be used by all platoons which participate in this platoon test. Previous study of this document, and familiarity with it, are mandatory.

6. A quartering party will be provided to guide the tested platoon into the assembly area.

7. The scorer will be present at all briefings, and will follow the platoon. The scorer's radio will be set on platoon channel and OIC's channel.

B. NIGHT MOVEMENT TO THE ASSEMBLY AREA AND ATTACK POSITION.

1. General. The test begins with the OIC having the platoon leader report to OIC headquarters. Generally, the platoon leader will be given the warning order about 2400 hours, but not later than 0300 hours. The approach march should be long enough to permit adequate and realistic testing of the platoon's manner of movement, (that is, one to five miles at least). The platoon should not remain in the assembly area - attack position longer than is absolutely necessary.

2. The Warning Order. This order should be issued orally by the OIC, and should be accompanied by a map or a map overlay.

3. Scorer. The scorer will stay near the platoon leader, and will try to be as unobstrusive as possible. The scorer will not answer any questions, give any guidance or hints, or help in any way. He merely observes and marks his score sheet. The scorer is not an umpire. (See SECTION VI,

Duties of Scorer; and SECTION VII, Score Sheets.)

4. OIC. The OIC, who also acts as company commander, will supervise the movement to ensure safe conduct and practices. The OIC will refrain from coaching the platoon leader.

C. ATTACK OF FIRST OBJECTIVE.

1. Scenario and Schedule of Events.

a. When the platoon leader reports to the OIC in the combination assembly area - attack position, the scorer will be present also. The OIC will issue the attack order orally.

b. Two tanks, representing the aggressor, should have been positioned in turret defilade behind the first objective. The OIC will contact these aggressor tanks at the proper time by radio, ordering them to move into hull defilade positions and to fire upon the advancing platoon.

c. The OIC will, at the proper time, order the two aggressor tanks to withdraw to positions behind the second objective, thus permitting the tested platoon to gain the first objective.

d. Before the attacking (tested) platoon can continue the attack, the OIC will inform the platoon of the firing of a friendly nuclear weapon, which is scheduled to be fired 15 minutes after the platoon's receipt of this message. Then, on schedule, the OIC will order the engineer squad to fire the simulated nuclear weapon.

e. After the blast (10 minutes), the OIC will order the platoon to continue its attack on the second objective.

2. The Attack Order. The attack order should be modified so it conforms to the local terrain complex. A normal operations order will serve the purpose. For example:

"Aggressor armor elements, believed to consist of two tank platoons and one infantry platoon, are located in the vicinity of Hill 555 (here). They moved into this area last night, and are in the process of preparing defensive positions on Hill 555. They have suspected AT (antitank) Positions _____ and _____.

Task Force 1/32 attacks (0900) today, seizes high ground at (555555), Companies A and B abreast, Company A on the left. The task force mortar platoon will be in direct support of Company B."

NOTE: The tested platoon leader commands the First Platoon, Company A.

"This company has no attachments or detachments.

"This company attacks (0900) today, seizes Hill 333 (here); continues attack, seizes Hill 444 (here), and Hill 555 (here).

"This operation will be an attack with the company in column—the First Platoon (tested platoon) leading, followed by the Second and Third Platoons.

"First Platoon attack and seize Hill (333), our first objective; continue the attack and seize Hill (444), our second objective. Your platoon will become the base of fire on Hill (444).

"Second Platoon follow First Platoon, prepared to assault Hill (555) on order." (Omitted)

"Third Platoon follow Second Platoon, prepare to assault Hill (555) on order." (Omitted)

"FFD at (222222), leading element across at (0900) hours.

"I will be with the Second Platoon initially.

"Do you have any questions?

"The time is now (0700) hours."

3. Conduct of the Attack. After the attack order is issued, the platoon leader returns to his platoon and prepares the platoon to move out. (See SECTION VII, Score Sheet, Paragraph C.)

a. The platoon crosses the FFD. As the platoon approaches to within 600 to 800 yards of the first objective, the OIC sends this message to the aggressor section of tanks behind the first objective: "Move into hull defilade and fire at the advancing platoon." (Each tank will fire three blank rounds.)

b. The platoon will maneuver and continue the attack. When the platoon is within 300 to 500 yards of the objective, the OIC will send this message to the two tanks which represent the aggressor: "Cease fire and move back quickly to the area behind the tested platoon's objective."

c. After the platoon has gained the first objective, and it is now obvious to the OIC that the platoon leader is about to continue his advance to the second objective, the OIC will send the following message to the platoon leader: "Flash—at (0945) hours a friendly 20-KT (kiloton) nuclear weapon will be fired one mile beyond the second objective. Continue the attack on my order. Over."

d. One minute after the nuclear blast, the OIC will send this message to the platoon leader: "Continue the attack."

D. ATTACK OF THE SECOND OBJECTIVE.

1. Scenario and Schedule of Events.

a. When the platoon leader is given the order, "Continue the attack," the platoon moves into the attack of the second objective.

b. Regardless of the formation used, or the method of attack employed, as the leading element of the platoon approaches to within 800 to 1000 yards of the objective the OIC will cause the two tanks which represent the aggressor to move into hull defilade positions and open fire.

c. When the platoon reaches positions about 500 yards from the objective, the OIC will instruct the two aggressor tanks to leave their positions and move back to rejoin the aggressor platoon, which is located (depending upon the terrain) about 2000 yards beyond the second objective in a concealed position.

d. The platoon moves onto the second objective. The platoon leader should quickly reorganize the platoon, and the platoon should take up positions from which it can support the attack of the remainder of the company by acting as the base of fire.

E. DELAYING ACTION.

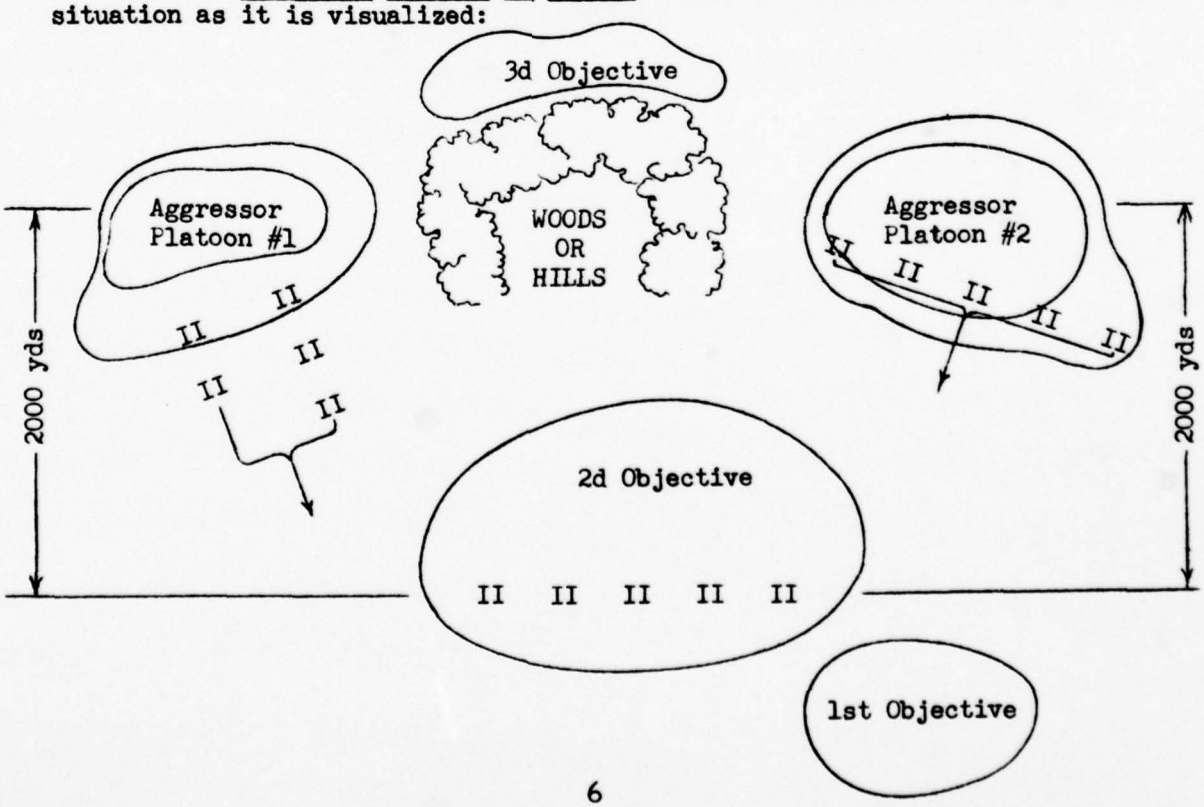
1. General. The stage for this action should be set up as follows:

a. The tested platoon is in the process of selecting tank positions (or in occupying them).

b. The two platoons (as shown in the sketch) representing the aggressor are in concealed positions, and are prepared to move immediately on order from the OIC.

NOTE: The number of aggressor tanks employed at this stage may be modified in accordance with availability.

2. Schematic Diagram of Action. Here is a schematic diagram of the situation as it is visualized:



a. The OIC, at a time when the tested platoon has selected its primary positions, but has not yet selected its alternate positions, will order Aggressor Platoon 1 to advance in two columns toward the tested platoon's left front. The tested platoon should not be told of this attack; the platoon must observe the attack and take immediate action. Aggressor Platoon 1 will open fire at 1500 yards, unless detected sooner by the tested platoon—in which case the aggressor platoon will deploy as soon as it is fired upon by the tested platoon.

b. Aggressor Platoon 1 will slowly advance to about 1000 yards, then will pull back under cover.

c. The OIC will have previously designated two aggressor tanks which will simulate being destroyed. The other three will withdraw, as indicated in b above, on orders from the OIC.

d. As Aggressor Platoon 1 is pulling back, the OIC will order Aggressor Platoon 2 to advance from cover to attack the right front of the tested platoon's position. This aggressor platoon will advance in line formation, and will not fire until it is fired upon by the tested platoon.

e. When the tested platoon leader reports the attack by Aggressor Platoon 2 to the OIC, the OIC will order the tested platoon to delay back to a designated delay position.

f. If the tested platoon does not observe Aggressor Platoon 2 by the time this aggressor platoon is within 1000 yards of the tested platoon's position, the OIC will send a message to the tested platoon leader that an aggressor tank - infantry formation is advancing through the contaminated area toward the tested platoon's position, and that the platoon will delay back to the first objective.

F. DEFENSE.

1. With the tested platoon at the delay position, the OIC will tell the tested platoon leader that the platoon will hold its present position until daylight.

2. The platoon leader will organize the position for defense. There will be no aggressor action.

3. Allow the platoon leader sufficient time for this phase. At the end of one hour, the problem will be finished.

G. CRITIQUE.

1. The OIC and the scorer will hold a critique on the problem.

SECTION IV. EQUIPMENT AND PERSONNEL REQUIREMENTS

A. TROOP REQUIREMENTS.

1. One TOE tank platoon to be tested.

2. Tanks and crews to represent the aggressor force.

3. One engineer squad to fire the nuclear weapon simulator.

4. Logistical elements as required.

B. AMMUNITION REQUIREMENTS.

1. Ammunition for Tested Platoon

Nomenclature	Basis of Issue
a. Ammo blank 90mm	10 per tank gun
b. Ctg blank .30 caliber MLB	250 per .30 caliber MG
c. Nuclear explosion simulator (3-SA-1)	1 per tested platoon

2. Ammunition for Aggressor Force

a. Ammo blank 90mm	10 per tank gun (to section acting as aggressor on 1st and 2d objectives) 5 per tank gun (to tanks representing Aggressor Platoons 1 and 2)
b. Ctg blank .30 caliber MLB	250 per .30 caliber MG

C. VEHICLE REQUIREMENTS.

1. Scorer.

One ¼-ton truck, with radio

2. Assistant Scorer.

One ¼-ton truck, with radio

3. OIC.

One ¼-ton truck, or track vehicle, with radio

4. Engineer Squad.

One ¼-ton truck, with radio

5. Medics.

One ¼-ton ambulance, with radio

D. MAPS. Five, issued on the basis of one to each tank commander,

platoon sergeant, and platoon leader.

SECTION V. SCORING AND RATING SYSTEM

A. SCORING.

1. General. The score sheets will be prepared by the officer who is responsible for adapting the test problem to local terrain conditions. However, the score sheets which accompany this test problem will not be altered, added to, or subtracted from, except that deletion of scoring items will be accomplished only where authorized and where indicated. This procedure ensures that any platoon leader who is taking the test at any test site or area will be scored identically with any other platoon leader, thereby permitting an accurate score comparison between platoon leaders wherever found.

2. Scoring Method. The scorer and assistant scorer will place opposite the item on the score sheet (in the score column) either a 1 or a 0. No other entry is necessary or desired. All test items have a value of 1. If the platoon performs the item, then the scorer or assistant scorer will place the figure 1 in the score column opposite that particular item; if the platoon does not perform the item, the 0 is placed in the score column opposite that particular item.

3. Score Achieved. The final score of the tested platoon is arrived at by subtracting the 0 scores from the maximum score, or sum of all possible points. Example: A platoon has 98 items marked 1, of a possible 113 points. The score sheet will show 15 items scored 0. The platoon score is 98.

B. RATING. (The criteria for relative ratings of platoons will not be determined until enough scoring data are available. It is felt at this time that a platoon will be rated as COMBAT READY or NOT COMBAT READY.) The ratings, however, will be related to an achieved score, and not to a percentage.

SECTION VI. DUTIES OF THE SCORER

A. GENERAL.

1. The items listed on the score sheet are worded in an objective manner. The scorer at no time needs to use opinion or judgment. Either the platoon accomplished the item, or it did not accomplish the item.

2. Although the scorer and assistant scorer do not need to have an intimate knowledge of armor to score this test problem, an elementary knowledge of armor tactical principles and procedures is expected.

3. In the event a tank in the tested platoon malfunctions to the point where it is not an effective part of the platoon, the scorer will score the remaining four tanks as a platoon.

B. METHOD OF SCORING.

1. Chief Scorer. The chief scorer will follow the tank platoon leader in a ¼-ton truck or track vehicle, observing the platoon and listening to all radio transmissions. The scorer will score each item he observes or hears.

2. Assistant Scorer. The assistant scorer will accompany any part of the platoon which the chief scorer considers it necessary to observe. For example: During the friendly atomic explosion, one item is: "Did all tanks traverse the main gun away from the expected direction of the nuclear blast?" The assistant scorer can "troop the line" and score this item for the chief scorer. On completion of the test, all items scored by the assistant scorer will be transposed to the chief scorer's score sheet.

C. SCORING INSTRUCTIONS.

1. In items which include all or each, the scorers will credit the item with a 1 only if all of the tanks (or each tank) accomplished the item.

2. For example: Using the illustration in Paragraph B2 above, if one tank in the platoon does not traverse the gun away from the direction of the blast, the platoon will be scored a 0 for that item. So when the assistant scorer and chief scorer are separated, if one or the other scores an item 0, the item will be scored 0 on the chief scorer's score sheet..

SECTION VII. SCORE SHEET

INFORMATION FORM

Unit Tested _____

Location _____

Date _____

Platoon Leader (Name) _____

OIC (Name) _____

Scorer (Name) _____

A. NIGHT MOVEMENT TO ASSEMBLY AREA - ATTACK POSITION. (Score a 0 for each item which is omitted or incorrectly performed.)

Performance	Weight	Score
1. On receipt of the warning order, the platoon leader alerted his men.	1	____
2. The platoon leader issued a march order.	1	____
3. The march order included the following information:		
a. Time of departure.	1	____
b. Order of march.	1	____
c. Location of IP.	1	____
d. Route of march.	1	____
e. Location of the assembly area	1	____
f. Information relative to the quartering party.	1	____
g. Information relative to possible mission.	1	____
h. The radio silence which will be in effect.	1	____
i. Information that no lights will be used.	1	____
4. The platoon leader reconnoitered the route to the IP.	1	____
5. All five tank commanders reported to the platoon leader when their crews and tanks were ready to roll.	1	____
6. The platoon leader reported to the OIC when his platoon was ready to roll.	1	____
7. The platoon crossed the IP without stopping.	1	____
8. The platoon crossed the IP on schedule.	1	____
9. The platoon marched without lights.	1	____
10. One member from each tank (except the lead tank) contacted the tank ahead at the halt.	1	____
11. Platoon personnel took up positions as ground and air security during the halt.	1	____
12. The platoon relayed signals for resumption of the march.	1	____
13. The NO SMOKING rule was enforced.	1	____

Performance	Weight	Score
14. Toward the end of the halt, each tank was checked to make certain all crew members were awake and ready to march.	1	____
B. OCCUPATION OF THE ASSEMBLY AREA - ATTACK POSITION.		
1. The platoon cleared the route of march without stopping.	1	____
2. The platoon leader checked <u>each</u> tank's position.	1	____
3. The platoon leader checked with <u>each</u> TC to ascertain the condition of readiness of <u>each</u> tank crew and vehicle.	1	____
4. The platoon leader reported the closing of his platoon, and its condition of readiness, to the OIC.	1	____
5. The platoon leader posted security personnel.	1	____
6. The platoon carried out the refueling process without the banging of cans and loud talk.	1	____
7. The platoon performed all at-halt maintenance which could be accomplished during conditions of darkness.	1	____
8. The platoon observed light discipline, for example:		
a. The interior lights in each tank were turned OFF <u>before</u> a hatch was opened.	1	____
b. No member of the platoon smoked.	1	____
c. No member of the platoon struck a match or operated a cigarette lighter.	1	____
9. The platoon leader reported to the OIC, as he was directed to do in the warning order given in the bivouac area.	1	____
C. ATTACK OF FIRST OBJECTIVE.		
1. <u>Preparation and Planning Before the Attack</u>.		
a. The platoon leader immediately alerted his platoon after receiving the attack order.	1	____
b. <u>All</u> platoon members immediately began to make preparations for the attack.	1	____
c. The platoon leader issued his attack order to the tank commanders to include:		
(1) Location of the aggressor.	1	____

Performance		Weight	Score
(2)	Suspected aggressor AT positions.	1	____
(3)	Time platoon crosses the FFD.	1	____
3 la (4)	Location of the FFD.	1	____
(5)	Location of the platoon in the attack (leading).	1	____
(6)	Location of the first objective.	1	____
(7)	Location of the second objective.	1	____
(8)	Information that no artillery support is available to the platoon during the attack.	1	____
(9)	Information that the platoon will be operating without infantry.	1	____
(10)	The mission of the platoon after seizing the second objective.	1	____
(11)	The mission of the company.	1	____
(12)	Location (initially) of the company commander.	1	____
d.	The platoon leader checked <u>each</u> tank commander to ensure that he understood his order.	1	____
e.	The platoon leader <u>and</u> platoon sergeant made a reconnaissance of the route to the FFD.	1	____
f.	The platoon leader <u>and</u> platoon sergeant ascertained the exact location of the FFD.	1	____
g.	The platoon leader informed all his TC's of his plan for carrying out the mission.	1	____
h.	The platoon leader <u>and</u> platoon sergeant made a final readiness check of each tank in the platoon before movement to the FFD.	1	____
i.	If a final readiness check was made, it was conducted at least 5 minutes before move-out time.	1	____
2.	<u>Movement to the FFD</u>.		
a.	The platoon moved from its position in a well organized manner; that is:		
(1)	<u>Each</u> tank moved quickly into its assigned position in the march column.	1	____

Performance	Weight	Score
(2) The platoon maintained the prescribed distance between tanks (50 - 100 yards).	1	____
(3) All control signals were relayed without delay.	1	____
(4) All control signals were obeyed.	1	____
b. The platoon reached the FFD on time (_____hours).	1	____
c. The platoon crossed the FFD on time (_____hours).	1	____
d. The platoon crossed the FFD without stopping.	1	____
e. The platoon leader reported the crossing of the FFD to the OIC.	1	____
3. Conduct of the Attack on the First Objective.		
a. The platoon utilized all available concealment in its route toward the objective.	1	____
b. The platoon deployed when fired on by the aggressor tanks located on the objective.	1	____
c. The platoon adopted the LINE, WEDGE, ECHELON formation. (Delete inappropriate formations.)	1	____
d. The platoon advanced by fire and movement (one section the base of fire, the other section the maneuver element).	1	____
e. The base of fire actually fired.	1	____
f. The platoon leader instructed the maneuvering section which route to take.	1	____
g. The platoon leader designated targets for the base of fire tanks.	1	____
h. Both suspected aggressor AT positions were fired on.	1	____
i. Reconnaissance by fire was conducted with machine guns.	1	____
j. The tanks which conducted reconnaissance by fire reported the presence or absence of aggressors in the suspected areas.	1	____
k. The platoon leader reported the two enemy tanks to the OIC.	1	____

Performance	Weight	Score

NOTE TO BATTALION S3: Questions l through r are selective, depending on the opinion of the officer who prepares the problem as to the best method of attack. Deletion of inappropriate questions will not affect the total scoring. See SECTION V (Scoring and Rating System).

l.	The platoon leader ordered the base of fire to cease fire and join the maneuvering element in the assault.	1	____
m.	The base of fire tanks joined the maneuvering section in the assault.	1	____
n.	The maneuvering section moved into the assault without halting.	1	____
o.	The base of fire lifted its fire when the maneuvering element started its assault.	1	____
p.	The base of fire shifted its fire beyond the first objective as the maneuvering element started its assault.	1	____
q.	The platoon advanced by bounds.	1	____
r.	The platoon advanced by successive, alternate bounds. (Select the proper bound.)	1	____
s.	The platoon obeyed the platoon leader's orders.	1	____
t.	The platoon leader reported the flight of the enemy tanks, to the OIC	1	____
u.	The platoon maintained 50 to 100 yards between tanks while occupying the objective.	1	____
v.	The platoon advanced to the far side of the objective.	1	____
w.	The platoon leader reported seizure of the objective to the OIC.	1	____
x.	The platoon leader reorganized his platoon for the continuance of the attack.	1	____
y.	The platoon leader refrained from requesting further instructions from the OIC.	1	____

D. ACTIONS PRIOR TO, DURING, AND IMMEDIATELY AFTER THE NUCLEAR DETONATION.

1.	The platoon leader relayed the nuclear alert to his platoon.	1	____
2.	The platoon deployed to turret defilade positions (if situation and terrain permit).	1	____

Performance	Weight	Score
3. All tanks faced the front of the tank toward the direction of the anticipated blast.	1	____
4. All tanks rotated the turret to the rear.	1	____
5. All tanks closed and locked all hatches.	1	____
6. All tanks lowered all periscopes.	1	____
7. Tanks were dispersed as much as the terrain and situation would permit.	1	____
8. All tank crew members remained in the tanks until the ALL CLEAR.	1	____
9. The platoon leader obtained a READY from all the tanks of his platoon.	1	____
10. The platoon leader reported a READY to the OIC.	1	____
11. After the blast, each crew reported its readiness, to the platoon leader.	1	____
12. The platoon leader reported NO CASUALTIES to the OIC after the blast.	1	____
13. All hatches remained closed until the ALL CLEAR was given.	1	____
E. ATTACK OF THE SECOND OBJECTIVE.		
1. All tank commanders traversed their gun tubes toward the enemy.	1	____

NOTE: Questions 2 through 10 are selective, depending on the opinion of the officer who prepares the problem as to the best method of attack. Deletion of inappropriate questions will not affect the total score. See SECTION V (Scoring and Rating System.)

2. The platoon attacked the platoon objective in LINE, WEDGE, ECHELON, COLUMN formation. (Select one.)	1	____
3. The platoon leader set up a base of fire and a maneuvering element when fired on.	1	____
4. The platoon leader designated the route of maneuver.	1	____
5. The platoon leader designated areas of fire for the base-of-fire tanks.	1	____
6. The platoon leader designated specific targets for the base-of-fire tanks.	1	____

Performance	Weight	Score
7. The platoon leader attacked by bounds.	1	____
8. The platoon used ALTERNATING, SUCCESSIVE bounds. (Select one.)	1	____
9. The maneuvering element used the available cover and concealment.	1	____
10. The base of fire joined the maneuvering element in the assault.	1	____
11. The tanks participating in the assault covered the objective with area fire.	1	____
12. The platoon leader reported seeing aggressor tanks on the objective, to the OIC.	1	____
13. The platoon leader ordered the base of fire to shift its fire (or to CEASE FIRE) when the maneuvering element began the assault.	1	____
14. The platoon leader ordered the base of fire to join the maneuvering element on the objective.	1	____
15. The platoon leader positioned his tank on the objective, so he could best control all the tanks in his platoon.	1	____
16. Each tank took up a defensive firing position when the assault was completed.	1	____
17. The platoon leader designated areas of responsibility for each tank to observe for enemy counterattack.	1	____
18. The platoon leader reported the seizing of the objective to the OIC.	1	____
19. The platoon leader requested a report from each tank regarding their continued state of combat readiness.	1	____
20. The platoon took up positions on the far side of the objective.	1	____
21. Each tank had one crew member designated as AIR ALERT observer. (If this duty was previously assigned, give credit.)	1	____
22. The people designated as AIR ALERT observers actually did the job; that is, they stayed on the tank and observed.	1	____
23. All tank commanders reconnoitered for, and selected, alternate positions.	1	____

Performance	Weight	Score
24. An attempt was made to camouflage the tanks.	1	____
25. The platoon leader knew what his mission was while on the objective. (The scorer will ask.)	1	____
26. <u>All</u> the TC's knew the platoon's mission while on the objective. (The scorer will ask.)	1	____

NOTE: Mission is to be the base of fire for the company attack.

F. DELAYING ACTION PHASE.

1. <u>First Aggressor Attack</u>.

a. Some member of the tested platoon noticed the aggressor attack <u>before</u> the aggressor tanks fired.	1	____
b. Some member of the platoon alerted the platoon leader. (Or if the platoon leader noticed the attack <u>before</u> the aggressor fired, he alerted the platoon.)	1	____
c. The tanks in whose area of responsibility the aggressors were attacking opened fire without command from the platoon leader.	1	____
d. The platoon leader ensured that <u>all</u> aggressor tanks were taken under fire; that is, he designated specific targets if and when necessary.	1	____
e. The platoon leader reported the attack to the OIC.	1	____
f. The platoon leader controlled his platoon so that not <u>all</u> his tanks were moving to an alternate firing position at the same time.	1	____
g. The platoon continued to fire when the attacking aggressor began to pull back.	1	____
h. The platoon leader reported repelling the attack to the OIC.	1	____
i. The platoon leader reported the two suspected tank "kills" to the OIC.	1	____
j. Each tank reported its combat effectiveness after the attack was beaten off.	1	____
k. The platoon leader alerted and cautioned the platoon to be prepared for another attack.		

Performance	Weight	Score
2. Second Aggressor Attack.		
a. Some member of the platoon noticed the attack developing before the aggressor platoon was within 1500 yards of the platoon's position.	1	____
b. Some member of the platoon alerted the platoon to the attack	1	____
c. The tanks in whose area of responsibility the attack was coming opened fire without command from the the platoon leader.	1	____
d. The platoon leader ensured that all aggressor tanks were taken under fire; that is, he designated specific targets if and when necessary.	1	____
e. The platoon leader reported this new attack to the OIC.	1	____
f. The platoon leader controlled the movement of the tanks of his platoon so that not all his tanks were changing firing positions at the same time.	1	____
g. The platoon leader alerted the platoon to its mission of delaying back to the first objective.	1	____
h. The platoon leader ordered the least engaged section to displace first to the rear.	1	____
i. The platoon leader designated the route he wanted the displacing section to follow.	1	____
j. The platoon leader told the displacing section the positions which he wanted them to occupy on the first objective.	1	____
k. The platoon leader instructed the displacing platoon to open fire immediately on being in position on the first objective.	1	____
l. The platoon leader controlled the fire of the section still on the second objective so as to cover all the attacking enemy tanks.	1	____
m. The platoon leader reported the movement of the displacing section, to the OIC.	1	____
n. The displacing section opened fire on the enemy formation as soon as they were in position on the first objective. (Give credit if the platoon leader ordered them to open fire on his receipt of the message that they are in position.)	1	____

Performance	Weight	Score
o. The platoon leader ordered the remaining section to displace <u>after</u> the section on the <u>first</u> objective began supporting by fire.	1	____
p. On his arrival on the first objective, the platoon leader designated individual tank positions for the platoon's tanks.	1	____
q. The platoon leader reported the departure of the second section of tanks from the second objective, to the OIC.	1	____
r. The platoon leader reported the arrival of the second section of tanks on the first objective, to the OIC.	1	____
G. AREA DEFENSE.		
1. The platoon leader informed the platoon of the new mission.	1	____
2. Each tank took up a defensive firing position.	1	____
3. The platoon leader ensured that <u>all</u> avenues of approach were covered by individual tanks.	1	____
4. <u>Each</u> tank commander selected an alternate position.	1	____
5. Crew members were informed of the location of the alternate positions.	1	____
6. The platoon leader checked <u>each</u> tank's alternate position.	1	____
7. The platoon leader checked <u>each</u> tank's route to its alternate position.	1	____
8. Supplementary positions were selected for <u>each</u> tank.	1	____
9. <u>All</u> tanks attempted to camouflage their positions.	1	____
10. Fields of fire were cleared where necessary. (Give credit if <u>not</u> necessary.)	1	____
11. An AIR ALERT was kept on <u>each</u> tank.	1	____
12. <u>Each</u> TC, including the platoon leader, prepared a range card.	1	____
13. The platoon leader designated for <u>each</u> tank the main targets he wanted to be placed on the range card.	1	____
14. TC's selected <u>other</u> targets in their areas of responsibility, in addition to those designated by the platoon leader, for inclusion of their range cards.	1	____

Performance	Weight	Score
15. The platoon leader checked <u>all</u> range cards as they were completed.	1	____
16. The platoon leader reported ALL READY to the OIC, when his position was in complete readiness to defend to the death.	1	____

H. CRITIQUE.

1. The OIC will make any comments desired.

2. The scorer will give the critique, and the rating attained.

HEADQUARTERS
3D BATTALION 6TH ARMORED CAVALRY
Fort Knox, Kentucky

23 October 1959

SUBJECT: Testing of HumRRO Tank Platoon Combat Readiness Test

TO: See Distribution

1. References. Armor Reference Data, The Armor School, May 1959; FM 17-1; FM 17-12; FM 17-33; FM 17-50; FM 17-79; FM 17-100; AR 320-5; DA TC 17-4, 17-5, dtd June 1959 and DA TC 17-6, dtd July 1959.

2. Purpose. To determine the feasibleness and applicableness of "The Tank Platoon Combat Readiness Check".

3. Objectives.

a. To determine whether "The Tank Platoon Combat Readiness Check" can be scored accurately and will provide an actual indication of the readiness status of the tested platoon.

b. To isolate and identify specific areas in which the test should be modified to attain its desired objective.

4. Application. One tank platoon, Tank Company, 3d Battalion. (2d and 3d platoon will be aggressor force for Phase III)

5. Nature of test. The test will be divided into three phases.

a. Phase I. Individual and Individual Crew Phase - Day.

(1) Station # 1 - Before operation check, OVM display.

(2) Station # 2 - Communications check.

(3) Station # 3 - Selection and occupation of positions, range card preparation, at halt maintenance check, preparation for atomic detonation and movement to station # 4 by strip map.

(4) Station # 4 - Preparation to fire, live firing of Cal .30 and .50 MG and 90mm gun.

(5) Station # 5 - After operation maintenance check.

b. Phase II. Individual Tank Crew Phase - Night.

(1) Night movement by strip map of individual tank.

(2) Selection of positions.

(3) Preparation of range cards using 105mm flare illumination.

(4) Live firing of Cal .30, .50 MG and 90mm gun, part from range card and part using 105 illumination.

c. Phase III. Tank Platoon Tactical Operation, Day and Night.

(1) Night march and occupation of attack position.

(2) Attack on intermediate objective.

(3) Firing of friendly atomic device.

(4) Attack on final objective.

(5) Consolidation and reorganization on objective.

(6) Delaying action.

(7) Position defense.

6. Administrative Details.

a. Tank Company will move to and establish administrative bivouac at Dorrets Range by 260900 Oct 1959 and provide mess facilities for test personnel and visitors.

b. Maps; Kentucky 1:25,000, Vine Grove, Colesburg sheets will be furnished by Bn S2.

c. Troop and material requirements: The requirements listed below will be provided as indicated.

DATE & TIME	PERSONNEL & EQUIPMENT	SPECIAL INSTRUCTIONS
260001 Oct	Bn Commo: three (3) FM Freq.	To be used by Umpire, Tested Platoon and Aggressor Force. Issue to Tank Co by 260700.
260700 Oct	Hq 3d Bn: One Umpire Team: Chief Umpire - Maj Rogers Chief Scorer - Capt Guilford Asst Scorer - Sfc Burke Hq Co: Provide: 2 - ¼ ton w/AN/VRQ 1 w/drv 1 - ¼ ton w/ANGRC 7 w/drv	1 - ¼ ton, Maj Rogers 1 - ¼ ton, Capt Guilford 1 - ¼ ton, Sfc Burke Report to Bn Hqs 260700 Oct.
260700 Oct	Support Plt: 2 - 2½ ton 6X6 trks	Pick up 10 man detail from Tk Co and haul ammo from ammo dump to Baum and Dorrets Range. Ammo to be requested by HumRRO.
260700 Oct	Med Det: 1 Medic w/litter jeep	Report to Tk Co.

260700 Oct	Tk Co: Ammo detail - 10 EM	To be picked up by Sfc Hartenfeld, also will be used on Baum and Dorrets Ranges.
260900 Oct	Tk Co: 1 - TOE Tk Plt (To be tested)	Plt to be equipped with M48A1 Phase IV tanks with all OVM & TOE equipment. The personnel in this platoon will remain with it from the start of the test 260900 Oct to the end at (approx.) 271200 Oct. Plt to be at Coord 013859 by 260900 Oct ready to start test.
	5 - EM (E7 or E6) to be used as testers	Report to Bn Asst S3, 231300 Oct for instructions.
	1 - Range Officer	Report to Bn Asst S3, 221600 Oct for instructions.
	1 - NCO w/¼ ton	Report to range officer at Baum Range 261000 Oct to score targets on Baum and Dorrets Ranges.
	5 - stake signs (Station 1 thru 5	Have in place by 260900 Oct Station # 1 - Coord 013859 Station # 2 - Coord 012853 Station # 3 - Coord 012851 Station # 4 - Coord 981870 Station # 5 - Coord 994871
	9 - stake flags (1 red and 8 white)	To be used by umpire and on Baum Range.
	1 - stake sign "Start"	To be used on Baum Range.
	5 - stake signs Points 1 thru 5	To be used by Range OIC on Dorrets Range.
	1 - sign "No light line"	See Asst S3 for disposition instructions.
	2 - Tk Plts and one ¼ ton w/ OIC to act as aggressor force	Report to Chief Umpire at Tk Co Bivouac site 261300. Dress in aggressor uniforms and use aggressor vehicle markings.
	2 - EM (Range guards)	Report to Range OIC at Baum range 261400 for instructions.
	POL for tested plt	Request from S4, to be used by tested plt in the assy area atk psn 270400 Oct.

	C Type Rations for tested platoon and aggressor force	Rations to be used for breakfast meal. Issue at start of phase III.
260900	HumRRO: Ammo: 90mm APC.....55 rds 90mm HE.....40 rds 90mm Blank.....310 rds 105mm How Ill.....40 rds 105mm How HE.....10 rds 50 Cal Tracers.....1250 rds 50 Cal 4 & 1.....375 rds 30 Cal 4 & 1 MLB...1625 rds 30 Cal Blank MLB...5000 rds	To be requested by HumRRO for pickup 260700 Oct for use in Phase I,II,III to be picked up by support plt and delivered to Baum and Dorrets Range, and Tk Co Bivouac site.
	HumRRO: One engr squad w/ atomic explosion simulator	Report to Chief Umpire at Tk Co bivouac site (Dorrets Range) 261200 Oct for instructions.
261000 Oct	How Co: 1 - Range Safety O 1 - 105mm How section (2 guns)	Report to Baum Range 261000 Oct (Safety Officer); Report to Dorrets range by 261500 Oct for instructions and night illumination mission (105mm section)
261000 Oct	Range OIC: (Tank Co) 6 - 6X6 panel targets (5 numbered 1 and 1 numbered 2) 9 - Kneeling silhouette targets 9 - standing silhouette targets	To be used on Baum Range
	2 - 6X8 OD Panel targets 6 - Standing silhouette targets 20 - Kneeling silhouette targets	To be used on Dorrets Range.

d. Control.

(1) OIC Phase I and II (Capt Guilford will maintain and operate one unit on tank company freq. and act as coordinator in maintaining control in the field of the tested unit.

(2) OIC, Chief Umpire Phase III (Major Rogers) will act as company commander of tank company, and issue orders to the platoon leaders of the tested platoon and aggressor force. Platoon leader of tested platoon renders all necessary reports to the Chief Umpire.

e. Battlefield conditions will be simulated where possible by use of blank ammo in Phase III.

f. Uniform. Winter field uniforms will be worn by all personnel of the tested platoon. Aggressor personnel will wear aggressor uniform with winter field.

g. Evacuation.

(1) Actual casualties will be evacuated to Ireland Army Hospital via attached medical aid man.

(2) Vehicle evacuation will be administrative. Any actual disable tank of the tested platoon will be replaced and the same crew will continue the test.

h. The SOP, FM 17-1, Page 390-401, will be used by the tested platoon. Prior study of this document, and familiarity therewith, is mandatory.

7. Safety.

a. Range officer will accompany each tank during live firing in Phase I and II and will insure that it is safe to fire prior to any command to "FIRE" being given.

b. Blank ammo will not be fired towards a person or vehicle at less than 100 yards.

c. All Umpire and control personnel will take positive steps to insure there is no physical contact between personnel of the tested unit and the aggressor. All assaults, regardless of the mission will be stopped when force approach within 100 yards of each other.

d. Extreme caution will be exercised when tanks are operating in assembly areas. All tanks operating in assembly areas will be preceded by a man on foot.

e. All unused ammo (blank and live) will be turned in upon completion of firing phase.

8. Umpire and control personnel instructions.

a. Uniform and identification, white tape will be worn around field cap and white flag will be displayed on the right rear of all control vehicles. Field uniform will be worn.

b. OIC Phase I and II and Chief Umpire Phase III will orient the test platoon before the start of each phase of the test and will critique it upon completion of each phase.

9. Aggressor Instructions.

a. The aggressor commander will be thoroughly familiar with the terrain over which his force will maneuver.

b. The aggressor commander will maintain radio contact with the Chief Umpire at all times to maintain control during phase III.

c. A dry-run of aggressor action will be conducted 261300 Oct 59.

10. Reports. The Chief Umpire, OIC, Tester and all control personnel will submit a critique in writing to this headquarters of that portion of the test they are responsible for which will include the following:

a. A brief description of the overall performance of the tested platoon.

b. Statement of any major deficiencies in testing procedures and preparation.

c. Statement of the validity of the test in rating the tested platoon.

d. Statement of any general comments or observations.

e. Recommended changes to the testing and scoring.

FOR THE COMMANDER

LEE H. HARRER
Capt, Armor
Adjutant

DISTRIBUTION:
6 - Tk Co (Less Annexes A & B)
1 - Hq Co
1 - How Co
1 - S1
1 - S2
1 - S4
1 - Maint
1 - Comm
10 - S3
4 - HumRRO

ANNEXES:
Annex A - Sequence of Events
Annex B - The Tank Platoon Combat Readiness Check
Parts I - III

ANNEX A (Sequence of Events) to Testing of HumRRO Tank Platoon Combat Readiness Test

PHASE I

TESTED PLATOON	TESTING & SUPPORT PERSONNEL
Platoon reports to OIC 260900 Oct prepared to start test at coord 013859 (Station # 1).	Tank Company moves to and establishes bivouac by 260900 Oct at Dorrets Run Tank Range. NCO testers will be asgn tank to be tested and will start test.
As individual tanks complete test at station # 1 they will be dispatched to station # 2 by OIC.	NCO testers will accompany individual tested tank thru all five stations of Phase I.
NCO testers will control all movements of individual tanks from dispatch at station # 1 to end of Phase I at station # 5.	Ammo section, support plt, with 10 man ammo detail will deliver ammo to Baum Range by 261000 and to Dorrets Run Tank Range, Tank Companies bivouac area and How Company firing poisition in turn.
As each tank arrives at station # 4 it will remain until called for by range officer to complete firing portion.	Range Officer will prepare Baum Tank Range and open range for firing by 261200 Oct. Med w/jeep will report to range officer at Baum Range by 261200 Oct. Scorer NCO w/$\frac{1}{4}$ ton will report to Baum Range 261200 Oct. Range Safety Officer will report to Baum Range by 261000. Range Officer will fire each tank as it arrives at the range. NCO scorer will score targets after each tank fires.
Noon meal will be taken at station # 4 (Baum Range).	Tank Company will feed noon meal for tested platoon, testers at Baum Range.
Phase I test will terminate upon completion of station # 5 and individual tanks will return to Co bivouac area for evening meal.	How Co firing section will move to Coord 001852 and start registration for Phase II by 261500 Oct. Tank Co will post range guards at coord 009877 and 996871 by 261500 Oct.

PHASE II

Platoon will report to OIC 261800 Oct prepared to start Phase II of test at coord 99208717.	NCO tester will rejoin the same tank they tested in Phase I at coord 261800 and accompany it thru Phase II.
Individual tanks will be dispatched on part one by OIC at 10 minutes interval.	Range Officer will set up and open Dorrets Range by 261900 Oct. Ammo detail will report to Dorrets Range by 261800 Oct. Safety Officer and NCO

	Scorer will report to Dorrets Range by 261800 Oct. Med w/jeep will report to Dorrets Range by 261800 Oct.
At completion of part two all tanks will move on to preselected positions on Dorrets Range.	How Co firing section will be prepared to fire illumination mission "on call" by 261900 Oct.
After completion of part three (range card preparation) four tanks will move to rear approx 100 yards. Tank to remain will be designated by Range OIC. Each tank will fire in turn.	Range Officer will cause four tanks to move to rear and will fire each tank in turn. NCO scorer will score targets after each tank fires.
Upon completion of firing part each tank will return to plt bivouac area coord 988872, conduct after operation maint and prepare for Phase III.	Upon completion of firing range will be closed and range details released. Spt plt will provide truck to haul brass and boxes.

PHASE III

SEQUENCE OF EVENTS	UMPIRE AND SCORER	AGGRESSOR
The tested platoon is now in a bivouac area coord 988872. The plt is aware it is going to be committed to combat, but not when. The situation is tactical.	Umpire Hqs is at Tk Co Administrative bivouac area (Dorrets Range)	Aggressor is at Tk Co Administrative bivouac area (Dorrets Range)
(262400 Oct 59) - Part 1 - Night March and Occupation of Attack Position		
Tank Plt Ldr receives warning order at Umpire Hqs 262400 Oct.	Chief Umpire issues warning order to Tk Co Comdr, to include control measures and strip map.	No aggressor activity prior to 270400.
Plt Ldr issues order to subordinates.	Check Plt Ldr order (See Score Sheet)	
	(Approx 270400 Oct 59)	
Plt conducts night march and arrives in attack position.	Chief Umpire will supervise the movement to insure safe conduct and practice. Scorer checks preparation, *movement and occupation of* the Assy Area, Atk Psn by the plt (See Score Sheet).	Aggressor moves and occupies position at coord 008877, 997885 and 988883.

Plt Ldr receives atk order in attack psn.	Chief Umpire issues attack order. Scorer will be present when order is issued.	
Plt Ldr issues attack order.	Scorer checks actions and orders of Plt Ldr and actions of platoon (See Score Sheet).	

(Approx 270630 Oct) - Part 2 - Attack on Intermediate Objective

Plt crosses LD and proceeds in the attack.	As plt approaches to within 600-800 yds of intermediate obj. Umpire orders aggressors to fire 3 rounds each at tested plt. Scorer checks orders of plt ldrs and actions of plt (See Score Sheet).	Aggressor takes plt under fire from intermediate obj. On order from Chief Umpire.
Plt routs aggressor & secures intermediate objective.	Chief Umpires orders agg to withdraw. Scorer checks actions & orders of Plt Ldr and actions of Plt (See Score Sheet).	Aggressor withdraws to final obj on order of Chief Umpire.

Part 3 - Firing of Friendly Atomic Devices

Plt secures intermediate objective and prepares to continue attack.	Chief Umpire issues "FLASH" message (Detonation of Friendly Atomic Device) to Plt Ldr. Eng squad prepare to detonate atomic device.	Aggressor is in position on final objective.
Plr Ldr issues order & prepares plt for detonation of atomic device.	Scorer checks preparation of Plt for detonation of atomic device (See Score Sheet). Chief Umpire gives count down for atomic device detonation. Issues all clear 10 minutes after detonation.	

Part 4 - Attack on Objective

Plt continues attack to secure final objective.	Chief Umpire issues order to continue attack. Scorer checks orders of Plt Ldr and actions of Plt. (See Score Sheet)	Aggressor force fire on Plt as they approach to within 800-1000 yds of the objective.

Part 5 - Consolidation & Reorganization of Objective

Plt secures objective	Umpire orders aggressor to	Aggressor withdraws to

and reorganizes.	withdraw. Scorer checks reorganization & position on the objective (See Score Sheet).	coord 991889 and 993891.
	Part 6 - Delaying Action	
Plt receives counter-attack from the left.	Chief Umpires orders one aggressor plt to atk from left. Scorer checks order of plt ldr and action of plt (See Score Sheet)	The aggressor Plt at coord 993891 and 988883 atks the tested plt left front.
	Chief Umpire will order aggressors to stop attack on left and withdraw.	Agg will not advance closer than 800 yds to the position and they withdraw leaving two tks simulated knockout.
Plt receives counter-attack from the right.	Chief Umpire orders one agg plt to atk from the right, orders tested plt to conduct delay back to vic intermediate obj. Scorer checks orders of Plt (See Score Sheet).	The agg plt at coord 993891 atks the tested plt right flank. Agg will not fire until fired upon, agg will not advance any closer than 500 yards to the tested platoon.
	Part 7 - Position Defense	
Plt occupies intermediate objective and prepares for position defense.	Scorer will check the order of Plt Ldr and action of plt in preparing for position defense. (See Score Sheet)	Agg will not advance any closer than final obj, but will maintain presure by fire.
Platoon will assemble for critique.	Chief Umpire will terminate problem and hold a critique on intermediate objective.	Agg will assemble on intermediate obj for critique.

THE

TANK PLATOON

COMBAT DECISIONS

TEST

US ARMY ARMOR HUMAN RESEARCH UNIT
Fort Knox, Kentucky

Problem Nr 1

SITUATION (See Figure 1):

You are platoon leader of a tank platoon. Your platoon is presently located at "A". Your mission is to overcome a hostile force occupying Ridge "X". Upon your arrival at "A" you learn of an enemy antitank gun and dismounted elements of the enemy near house at "C". Your battalion mortar platoon is in support of your operation. You determine your plan of attack; then you assemble your tank commanders to give them your instructions.

REQUIREMENT: Issue your initial instructions.

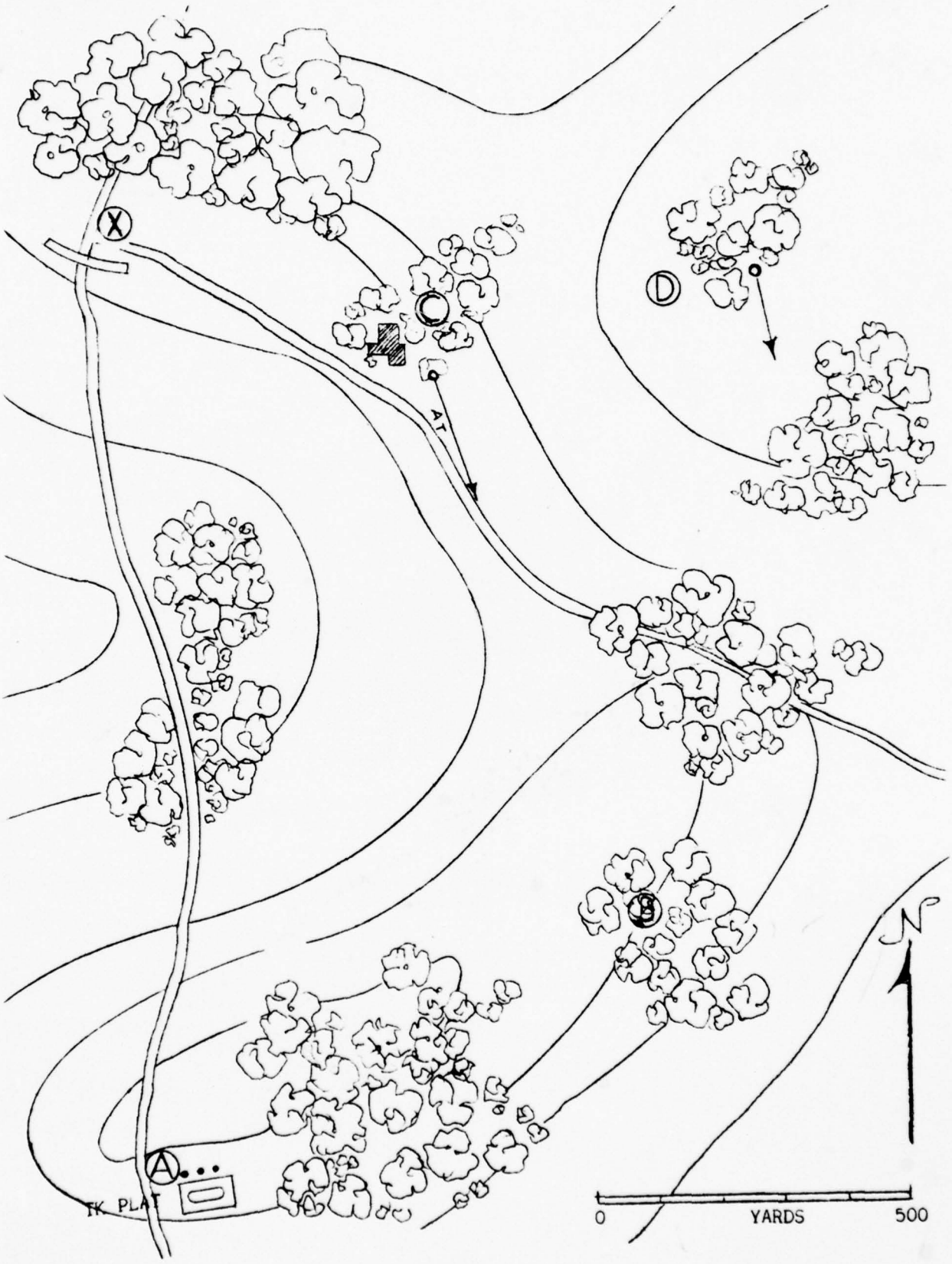


Figure 1

Problem Nr 2

SITUATION:

You are platoon leader of a tank platoon with the mission of providing flank security for the leading reinforced tank battalion of a combat command in the exploitation. Your platoon is in column, 1st Section leading; you are in the third tank in the column. Suddenly, you observe to your right flank approximately 250 enemy troops and five airplanes at an improvised air field, where preparations for an air movement are being made. Their only visible security appears to be two self-propelled antiaircraft automatic weapons (probably 40mm) positioned between your platoon and the airplanes. You estimate the airplanes to be about 1400 yards from your position. You are apparently unnoticed.

REQUIREMENT: What would you do in this situation?

Problem Nr 3

SITUATION:

You are the platoon leader of a tank platoon which is part of a tank company engaged in an offensive operation. Your platoon is deployed and is advancing by sections. You are under enemy fire. As you advance, one of the tanks in the leading section is disabled by an antitank mine. The tank commander of the disabled tank reports that an enemy minefield extends across the entire front and is covered by enemy fire from both flanks. In order to accomplish your mission you must pass through the minefield. Engineers and Armor infantry are not available to you; however, you have available on call the fire support of one battalion of artillery and the battalion 4.2 mortar platoon. A mild breeze from your right flank favors your use of smoke.

REQUIREMENT:

How would you accomplish the crossing of the minefield?

Problem Nr 4

SITUATION (See Figure 2):

Team ABLE, 1st Tank Battalion, Reinforced, has been advancing rapidly through scattered resistance to seize crossings over the ARROYO RIVER. Team ABLE has priority of fires of the battalion 4.2-inch mortar platoon, and the battalion has priority of fires of an armor field artillery battalion. You are platoon leader, 1st platoon. Your platoon's mission is to seize the bridge at TERRELLO. Enemy antitank guns have stopped you 1500 yards south of the village TERRELLO. From your position you observe enemy troops and vehicles withdrawing across the bridge. You also see a long dust column moving east on the road about a mile west of the 3d Platoon's objective.

REQUIREMENT:

How would you accomplish your mission?

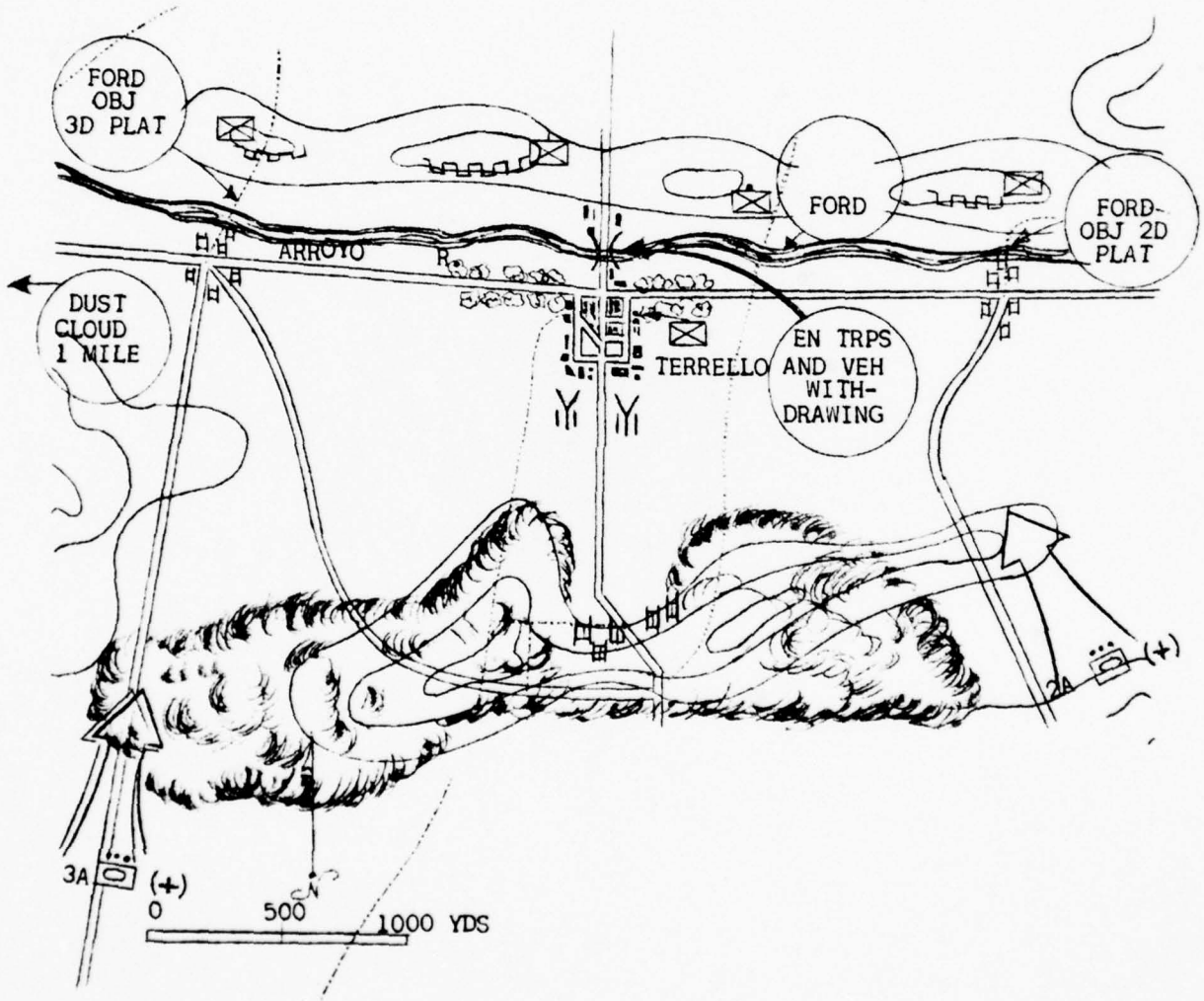

FORD
OBJ
3D PLAT
ARROYO
FORD
FORD-
OBJ 2D
PLAT
DUST
CLOUD
1 MILE
TERRELLO
EN TRPS
AND VEH
WITH-
DRAWING
2A
(+)
3A
(+)
0
500
1000 YDS

Figure 2

Problem Nr 5

SITUATION:

You are platoon leader, 1st Tank Platoon, Company A, 1st Tank Battalion, Reinforced. You are at the Company OP, and are receiving your attack order from your company commander.

"You know the situation (See Figure 3). We will attack at 0600 tomorrow through the 121st Armor Infantry Battalion, Reinforced, with three platoons on line to the right of the road, to seize the objective.

Line of departure is friendly front lines.

Reconnaissance Platoon and friendly infantry will guide us from the attack position to the LD.

1st Platoon attacks on the left. Seize the left portion of objective, reorganize, and coordinate with Company C on the left.

2d Platoon, reinforced with 2d Platoon, Company B, 121st Armor Infantry Battalion, attacks in the center.....

3d Platoon, reinforced with 3d Platoon, Company B, 121st Armor Infantry Battalion, attacks on the right.....

Armor Infantry Platoons, mounted, wedge formation in rear of tanks. One FO in Headquarters tank, the other in ¼-ton truck. Necessary resupply on the objective. Company net opens on my order. My tank will be behind the center tank platoon during attack.

Any questions?

Time is now..... ."

(See Scene 1). After crossing the line of departure, you check your platoon to ensure that it is in proper formation. You observe the terrain and maintain a sharp lookout for enemy. You suspect the woods to your right front, and you locate an AT gun to your left front at about 10 o'clock, and 1500 yards from your position.

FIRST REQUIREMENT:

Issue your orders.

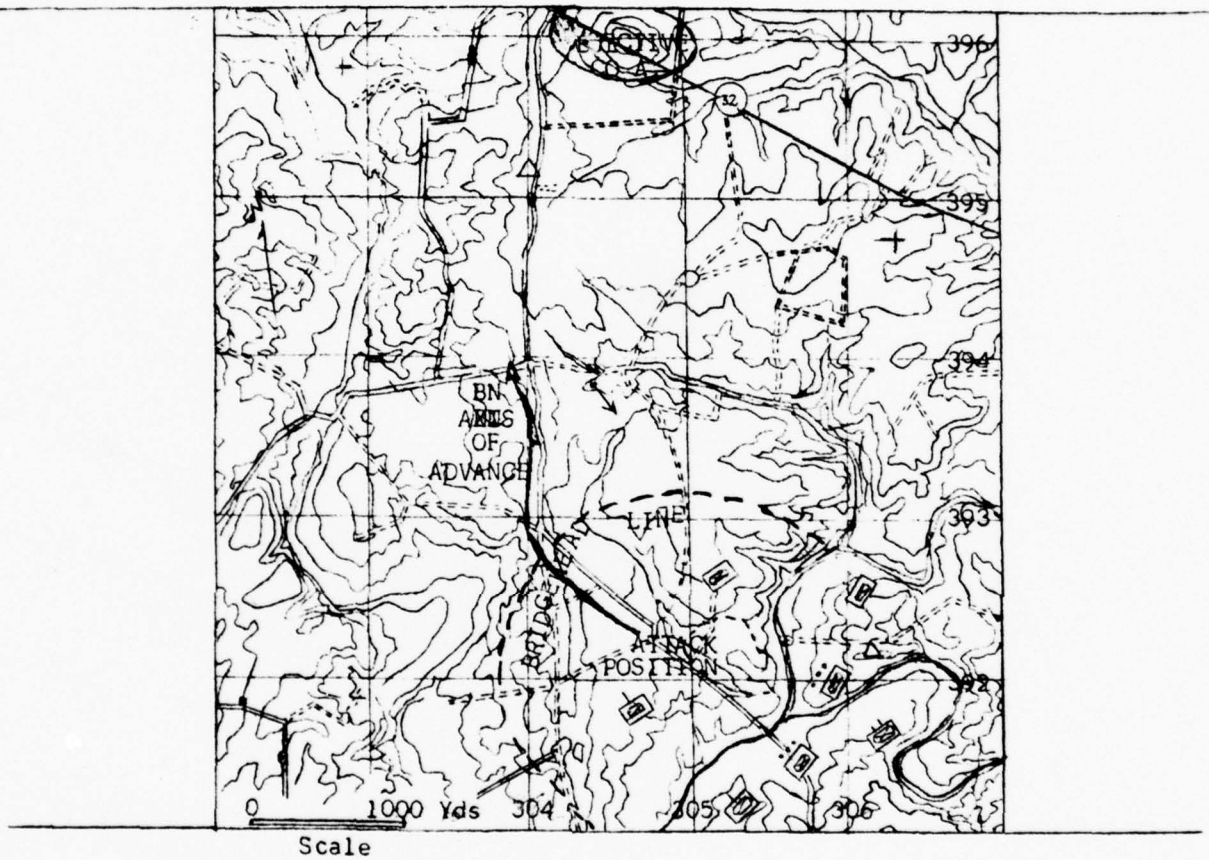

396
395
394
393
392
BN
AXIS
OF
ADVANCE
LINE
ATTACK
POSITION
0
1000 Yds
304
305
306
Scale

Figure 3



Scene 1

SITUATION (Continued):

(See Scene 2.) As your platoon continues the attack, it comes under heavier fire from rocket launchers, mortars, and small arms from the woods to your right front. Enemy artillery also increases.

SECOND REQUIREMENT:

Issue your orders, and take other action deemed necessary.

SITUATION (Continued):

Your platoon has successfully neutralized the enemy strong point, and is continuing on its mission--which is to seize the left portion of the company objective (See Figure 4). As your platoon advances (See Scene 3), it comes under heavy artillery, mortar, and antitank gun fire. Your tank has been hit on the track by artillery fire, and it is disabled.

THIRD REQUIREMENT:

Issue your orders.

SITUATION (Continued):

(See Scenes 4 and 5.) You receive the reports from your sections as depicted in Scene 4. Immediately thereafter, you hear the Artillery Air Observer's report, as given in Scene 5.

FOURTH REQUIREMENT:

Issue your orders and take any other action you deem necessary.



Scene 2

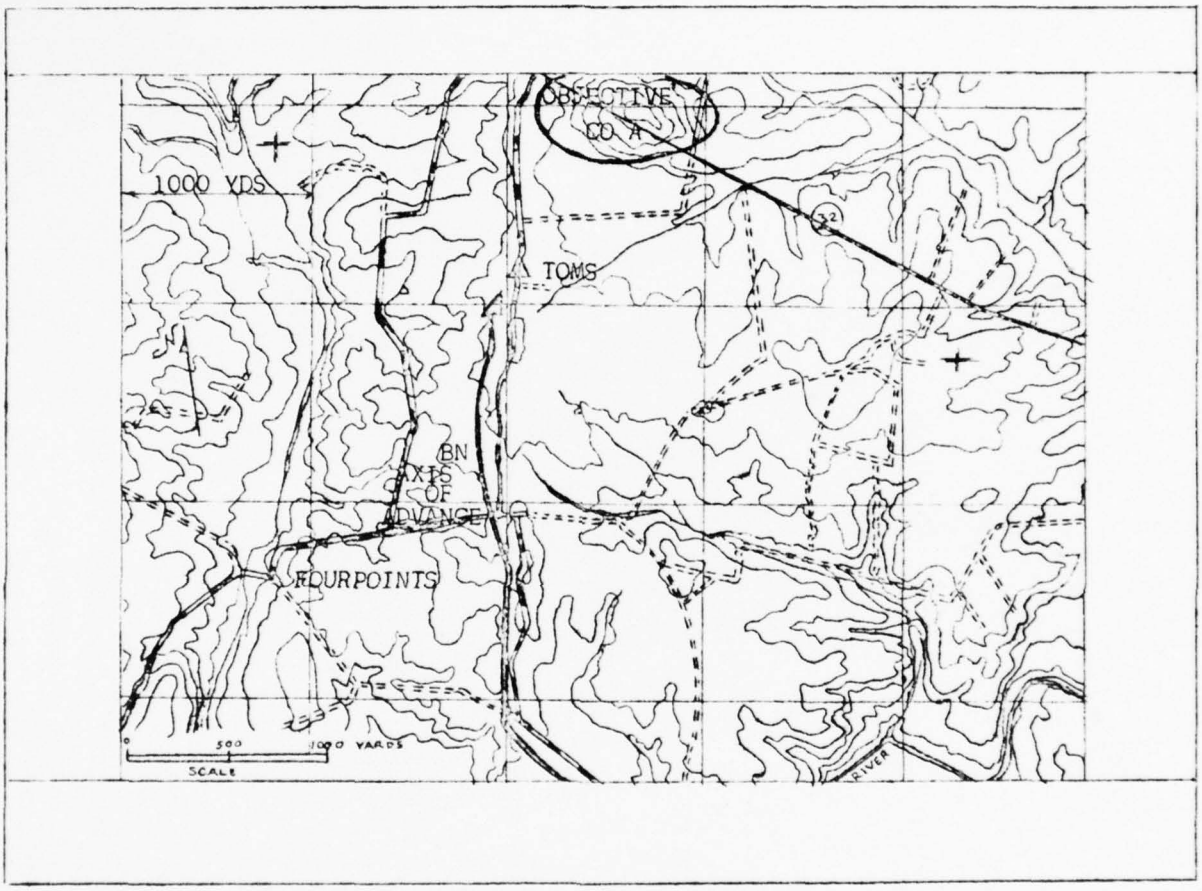
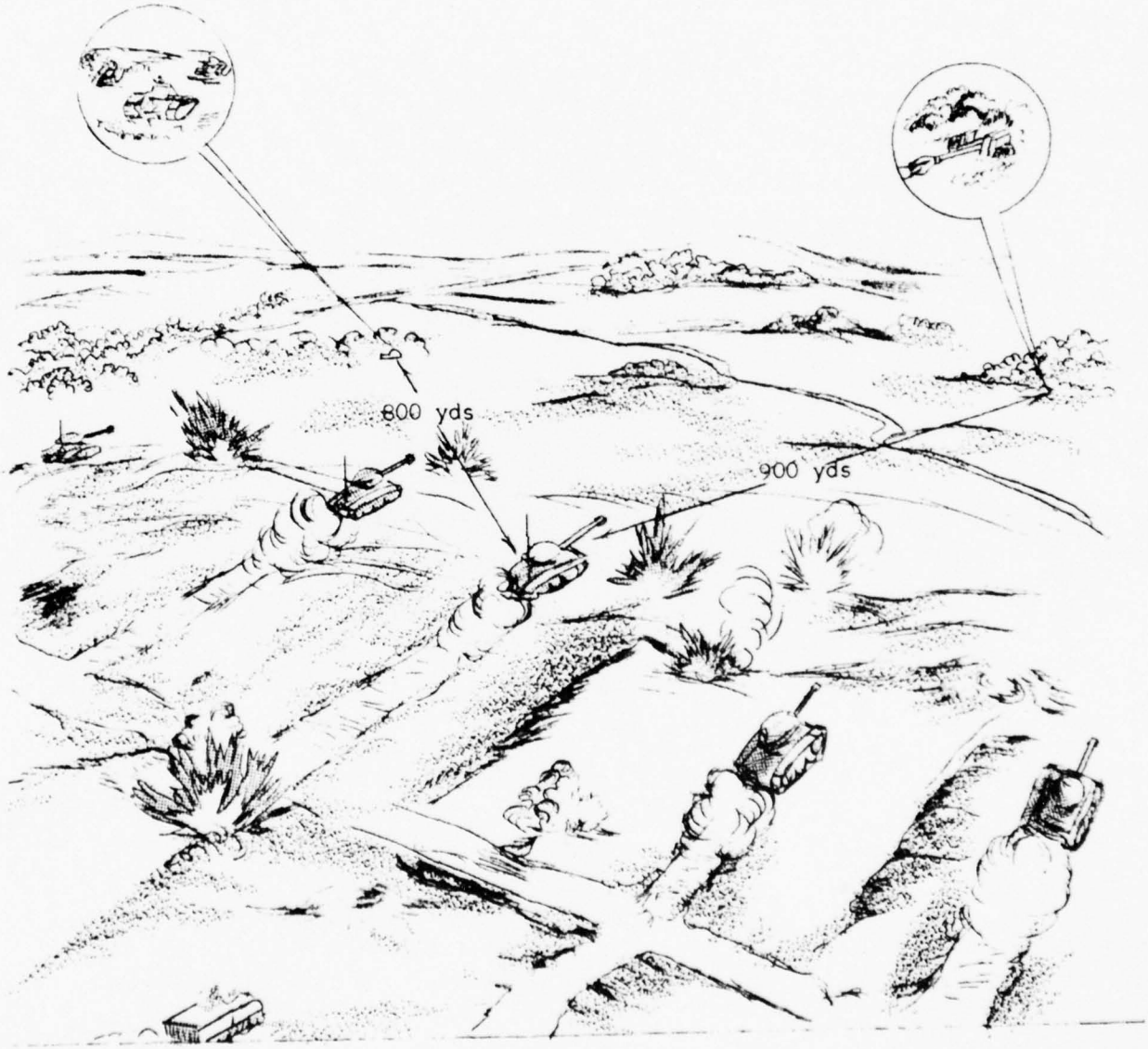
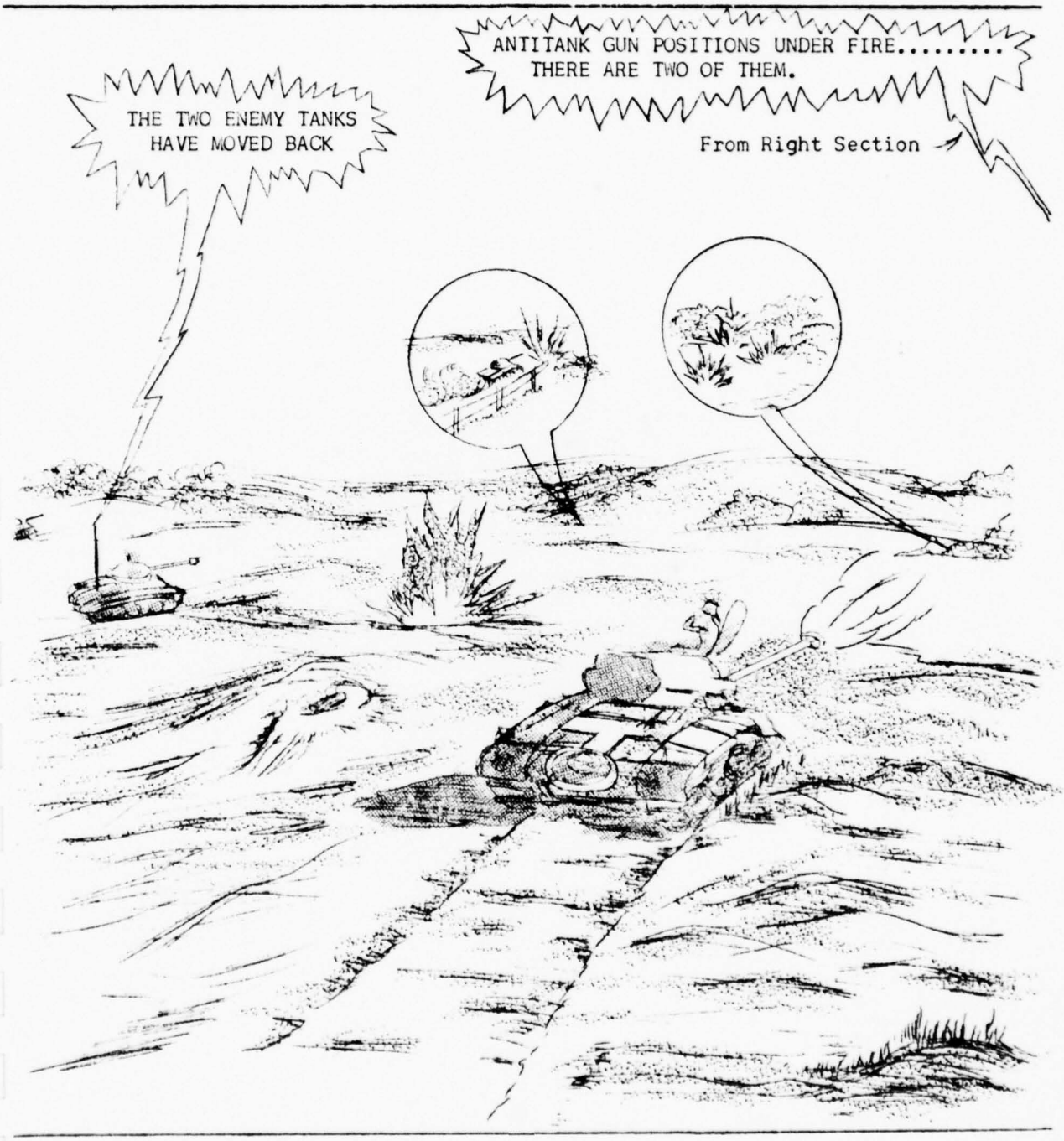

OBJECTIVE
CO A
1000 YDS
TOMS
BN
AXIS
OF
ADVANCE
FOURPOINTS
0
500
1000 YARDS
SCALE
RIVER

Figure 4



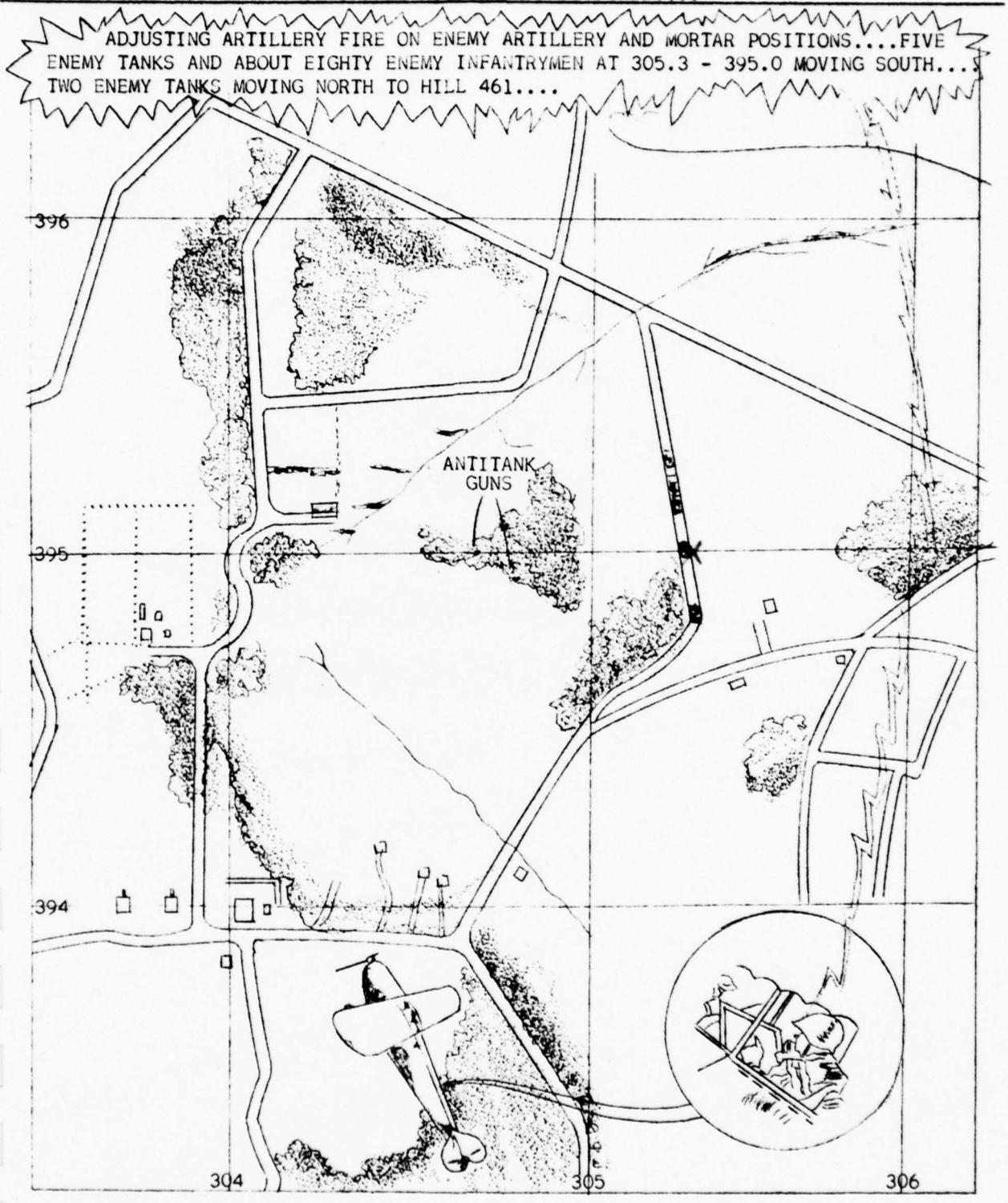
Scene 3

TANK SECTION LEADERS REPORT....



Scene 4

ARTILLERY AIR OBSERVER REPORTS....



Scene 5

SITUATION (Continued):

The two enemy tanks your platoon fired on have withdrawn to vicinity beyond the team objective. The two enemy AT guns were destroyed. Your platoon has successfully assaulted your portion of the objective.

FIFTH REQUIREMENT:

What would you do?

Problem Nr 6

SITUATION:

You are the platoon leader, 2d Platoon, Company A, 21st Medium Tank Battalion, part of CCB. Your platoon is disposed as shown on Figure 5, to defend the assigned strong point within the company sector. Tactical Air Reconnaissance has reported the movement of enemy forces from the Northwest toward the area. Suddenly Platoon Observation Post Nr 1, located in vicinity of RAILROAD CROSSING 576, coordinates 32634050, reports that an enemy force of approximately 12 tanks and a company of infantry is advancing south from vicinity of LOCUST GROVE SCHOOL 32534069. The head of the enemy column is at RJ 32524064.

FIRST REQUIREMENT:

Issue your orders and take any other action you deem necessary.

SITUATION (Continued):

The enemy force continues to advance. Your platoon directs an increasing volume of fire on the approaching enemy. Other company, battalion, and supporting elements add their fires to the defense. The enemy advance is slowed considerably, but is not stopped. Additional enemy forces join the attack. The Combat Command Commander realizes that it will be necessary to counterattack the enemy force with the CCB reserve. He announces he will use Counterattack Plan "A". (See Scene 6.)

SECOND REQUIREMENT:

Issue your orders.

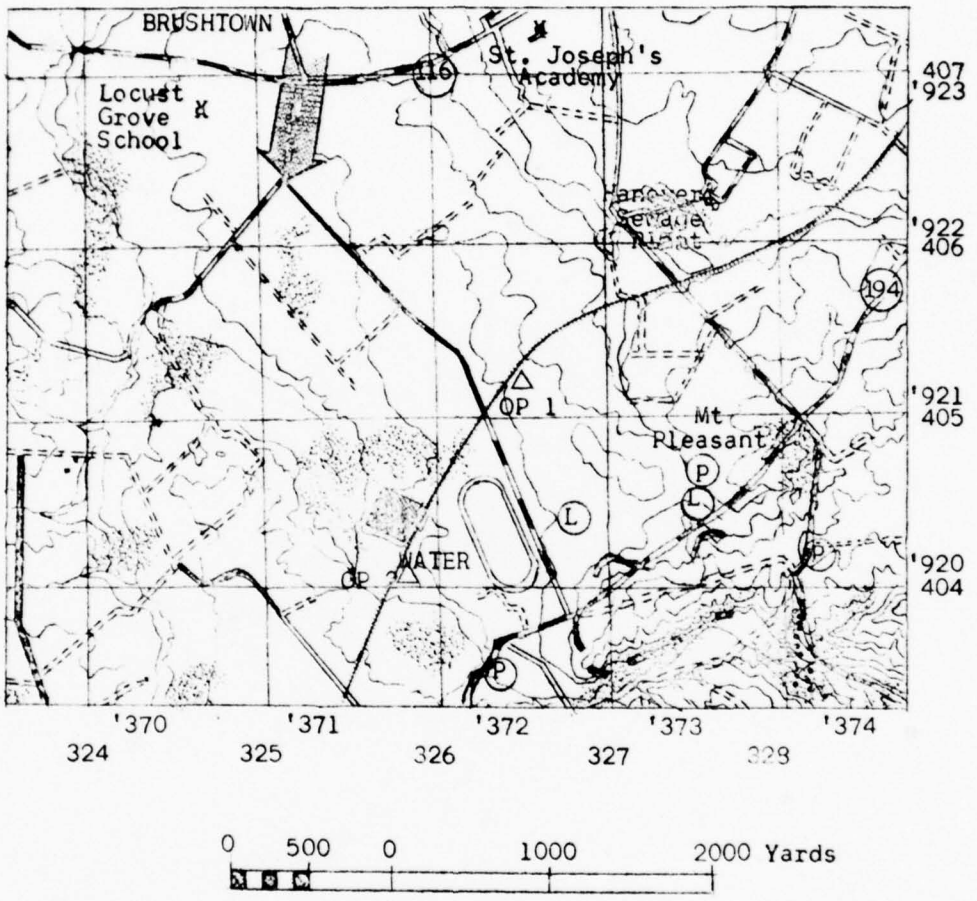
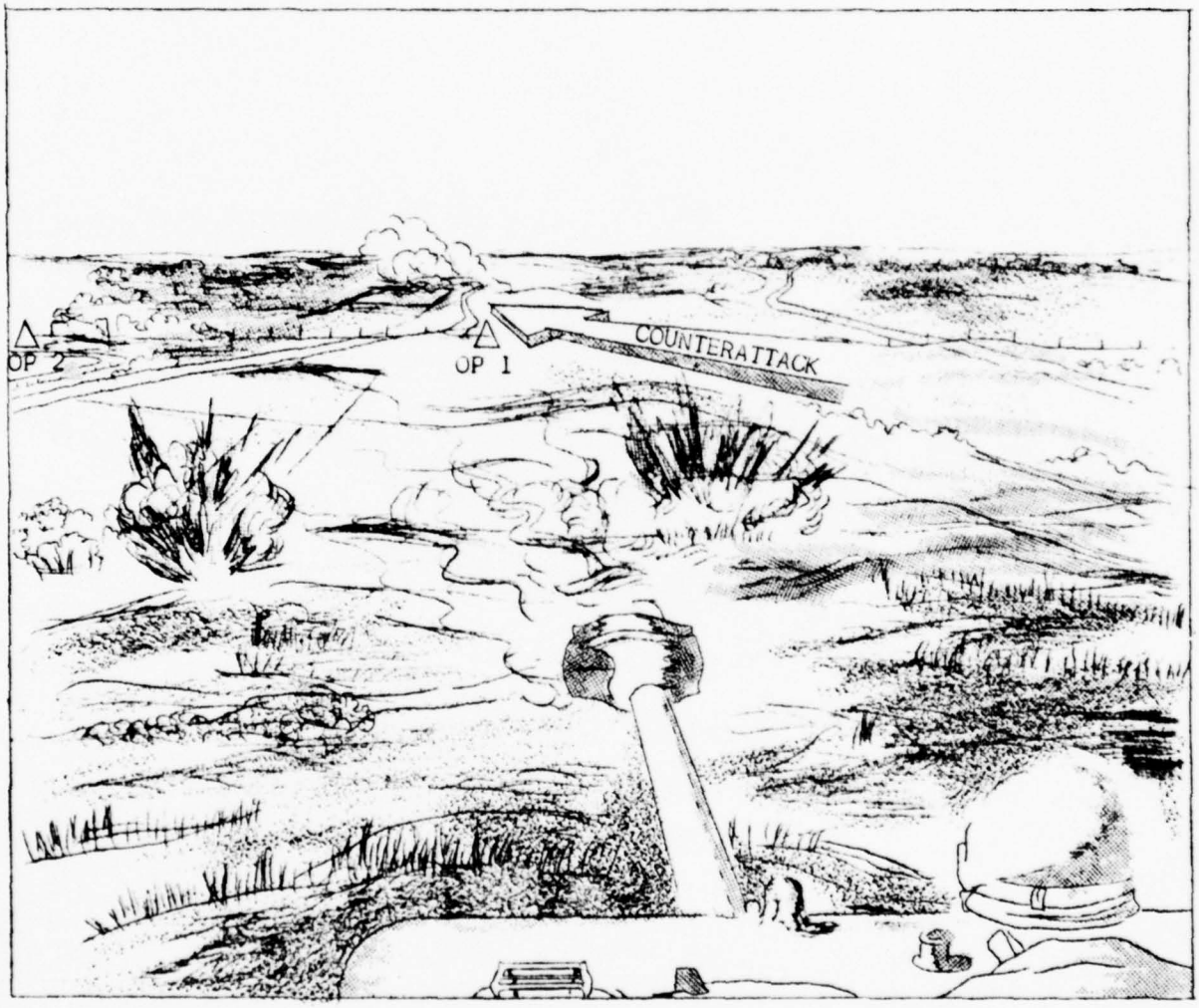

BRUSHTOWN
St. Joseph's Academy
116
Locust Grove School
194
QP 1
Mt Pleasant
WATER
QP
P
L
407
'923
'922
406
'921
405
'920
404
'370
'371
'372
'373
'374
324
325
326
327
328
0
500
0
1000
2000 Yards

Figure 5



Scene 6

Problem Nr 7

SITUATION:

You are a tank platoon leader of a tank company organic to an infantry regiment. The situation is depicted in Scene 7 and on Figure 6.

FIRST REQUIREMENT (See Figure 6):

Select the targets you would designate to your platoon. List by number and indicate target by number on overlay on Figure 6.

SITUATION (Continued):

You have selected the targets on which you desire to place fire. You now wish to prepare the range card.

SECOND REQUIREMENT:

What method would you use to prepare firing data to be used on the targets you have chosen? List each step.

GENERAL. An important mission of armored units organic to the infantry division is reinforcing the fires of the infantry. Tanks must be prepared to render these reinforcing fires during the hours of darkness as well as daylight. This presents a problem to the tanks, but by using the auxiliary fire control equipment, accurate and effective fire may be placed on targets and likely avenues of approach at night.



SITUATION. You are platoon leader of 1sr Platoon, Tank Company, 1st Infantry. You have been attached to the 2nd Battalion for an offensive operation. During the first day of the attack, the 2nd Battalion secured its objective and is now preparing night defensive positions along the line A-B. The battalion commander tells you that your platoon will remain under battalion control. He also informs you that your platoon must be prepared to fire and reinforce fires on likely avenues of enemy approach throughout the night from your present position. (See sketch.)

Scene 7

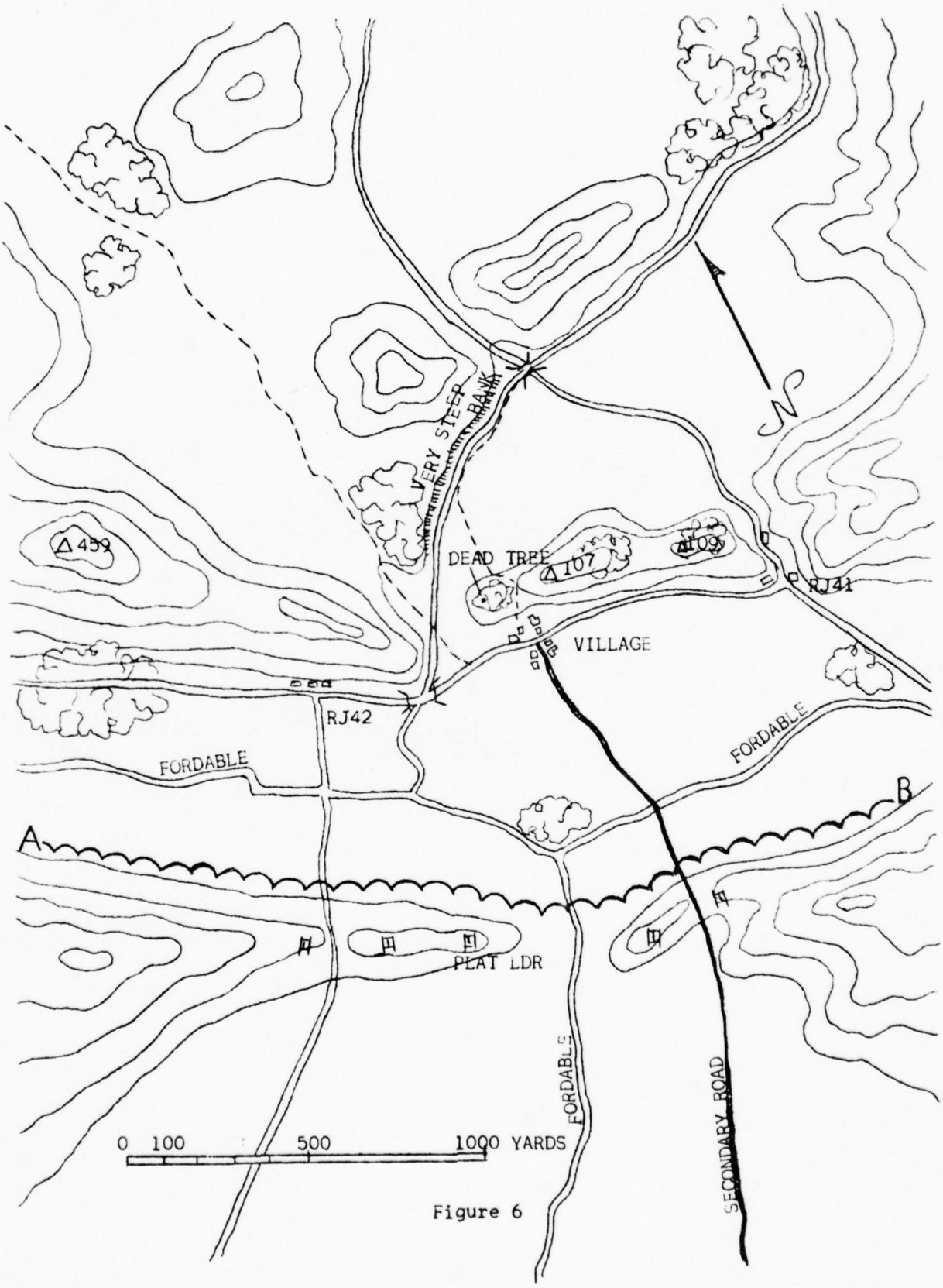

VERY STEEP BANK
DEAD TREE
△107
△109
RJ41
VILLAGE
RJ42
FORDABLE
FORDABLE
FORDABLE
A
B
PLAT LDR
SECONDARY ROAD
0 100 500 1000 YARDS

Figure 6

Problem Nr 8

SITUATION:

You are a tank platoon leader in the left reinforced battalion of a combat command. The combat command is in the exploitation of an operation designed to seize multiple crossings over RIVER "R". The leading reinforced platoon succeeded in seizing the BRIDGE "B" intact (See Figure 7); however, as the tanks of the leading platoon began to cross the river, an enemy air strike damaged the bridge, and the first tank fell through the bridge. The river is unfordable, and no other bridge crossing is available; they have all been destroyed. Supporting engineers have begun work on BRIDGE "B" and estimate that they will have it repaired in two hours. Meanwhile, two armor infantry companies have crossed the river in their armored infantry vehicles, and are digging in on the high ground at "A". The battalion commander, after going up in an Army aircraft, reported an enemy built-up area in the vicinity of ROAD JUNCTION "Y", and ordered that all tanks south of RIVER "R" will fire on this built-up area. Your platoon is located as shown on Figure 7. The area at "Y" cannot be seen from your position; however, the armor infantry commander at "A" and the pilot of the Army aircraft can observe your fire on "Y". From your position at the center (Nr 1) tank, you can see a large radio tower near the town of "M", at a map range of 16,000 yards. You can also see a small strip of road beyond (north of) the ROAD JUNCTION at "Y". The commanders of all tanks in your platoon can see the radio tower, but none can see the strip of road near RJ at "Y".

REQUIREMENT:

Lay your platoon to fire on the target at ROAD JUNCTION "Y". (Give each step you would take to accomplish your mission.)

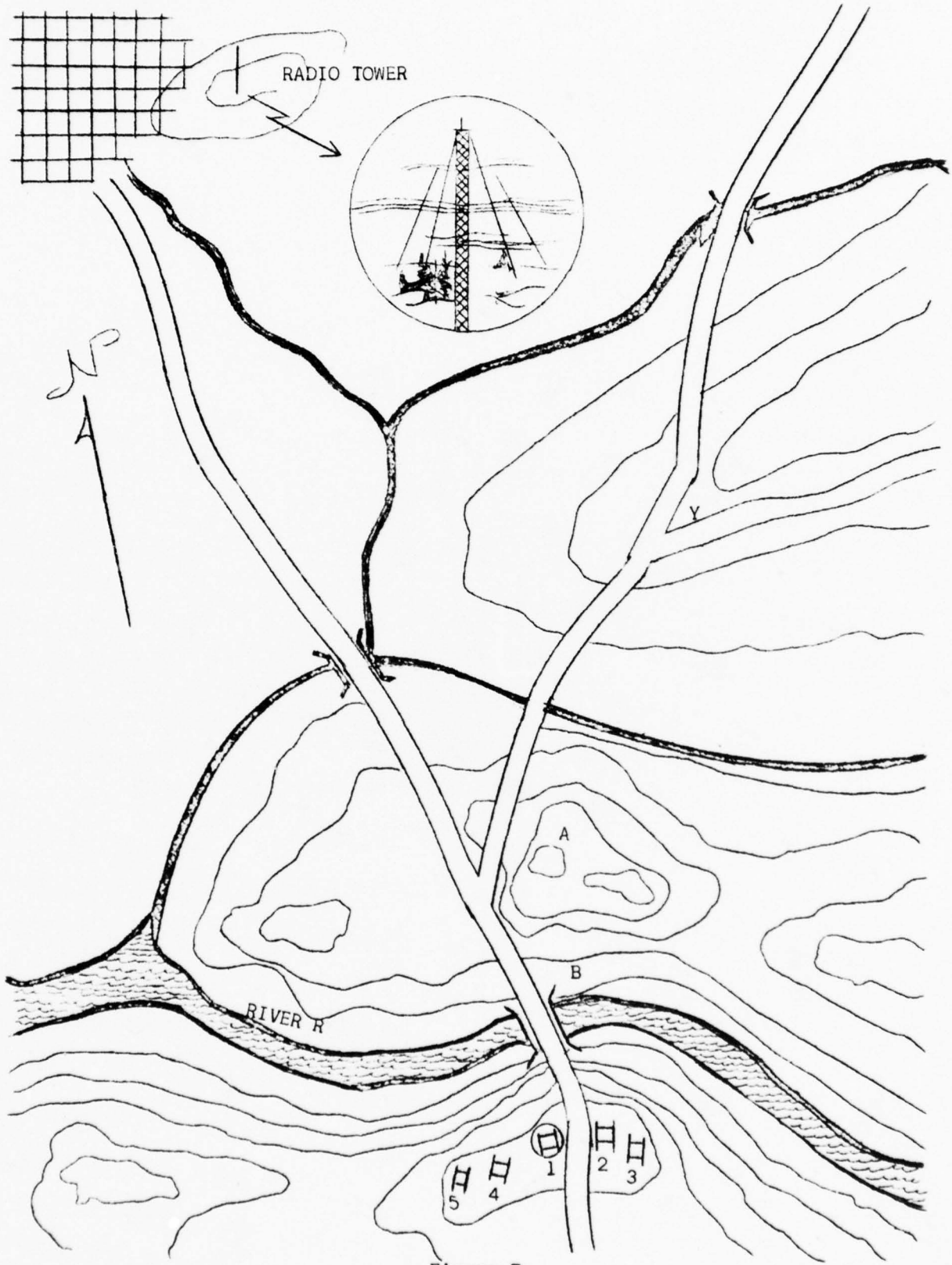


Figure 7

Problem Nr 9

SITUATION:

You are a tank platoon leader, of a medium-gun tank platoon, in the attack position. The company commander has issued the attack order. Your platoon will lead the company attack along axis RED to secure objective CAT. The following information is known to you (See Scene Nr 8).

a. The weather is clear, with excellent visibility.

b. The terrain is wooded and affords good defensive positions.

c. The most probable type of target is an enemy tank.

d. Because of the nature of the terrain, the range at which any tank versus tank engagements are most likely to occur is 500 to 1000 yards.

You are now in the attack position and plan to lead the attack in your tank.

FIRST REQUIREMENT:

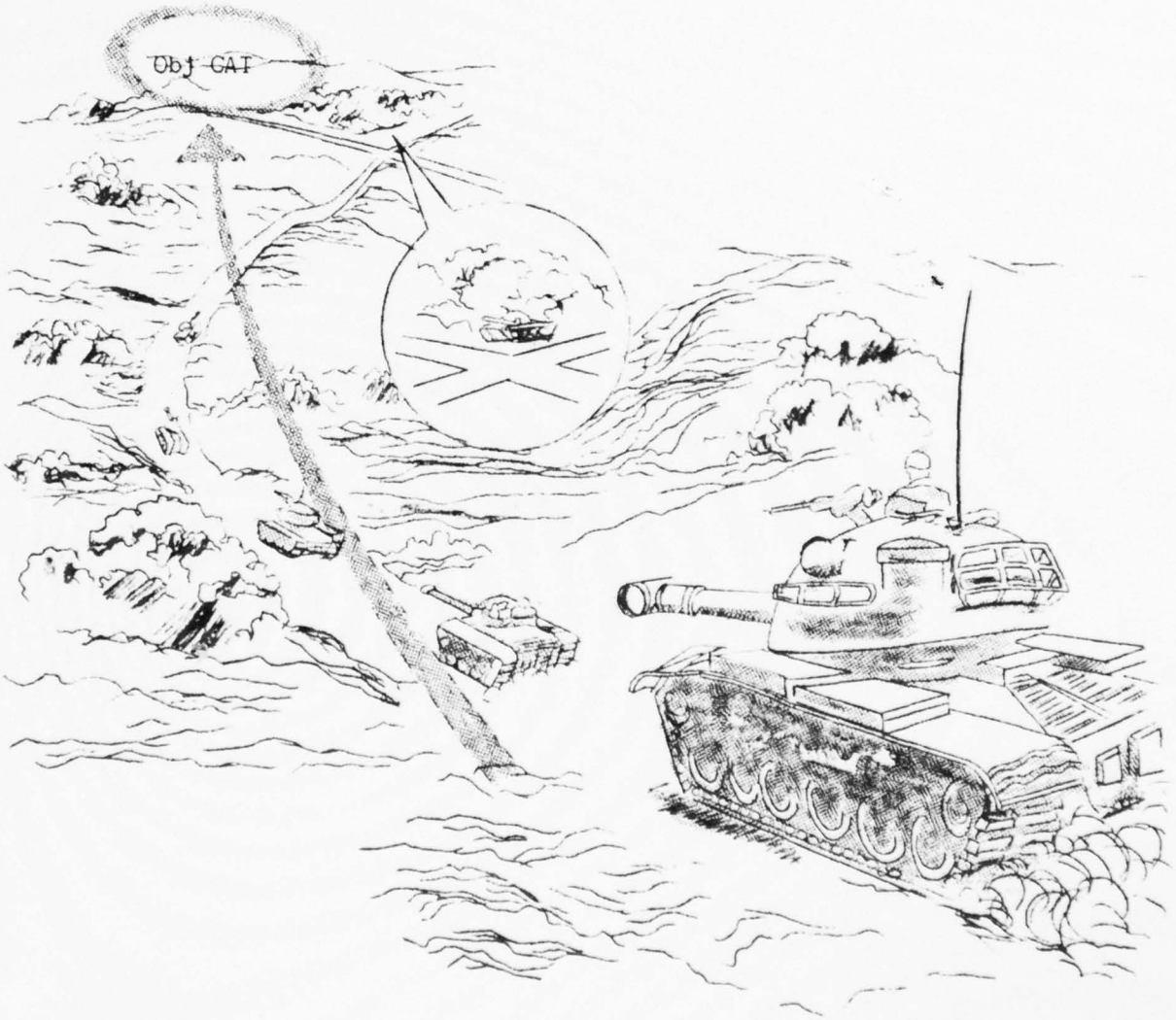
What action would you take in the attack position to ensure that your tank is capable of obtaining a fast first-round hit?

SITUATION (Continued):

You have moved out of the attack position and are moving down the road when, as your tank approaches an open area, you suddenly see the gun flash of an enemy tank which has just fired at you and missed.

SECOND REQUIREMENT:

Issue your orders.



Scene 8

Problem Nr 10

SITUATION:

You are a tank platoon leader in a tank company located in the attack position. Five minutes before H-hour your radio becomes inoperative. Your loader, who has been to Radio Repairman School, says that he thinks he can fix the radio in about three minutes.

REQUIREMENT:

What would you do? How would you do it, and why?

Problem Nr 11

SITUATION:

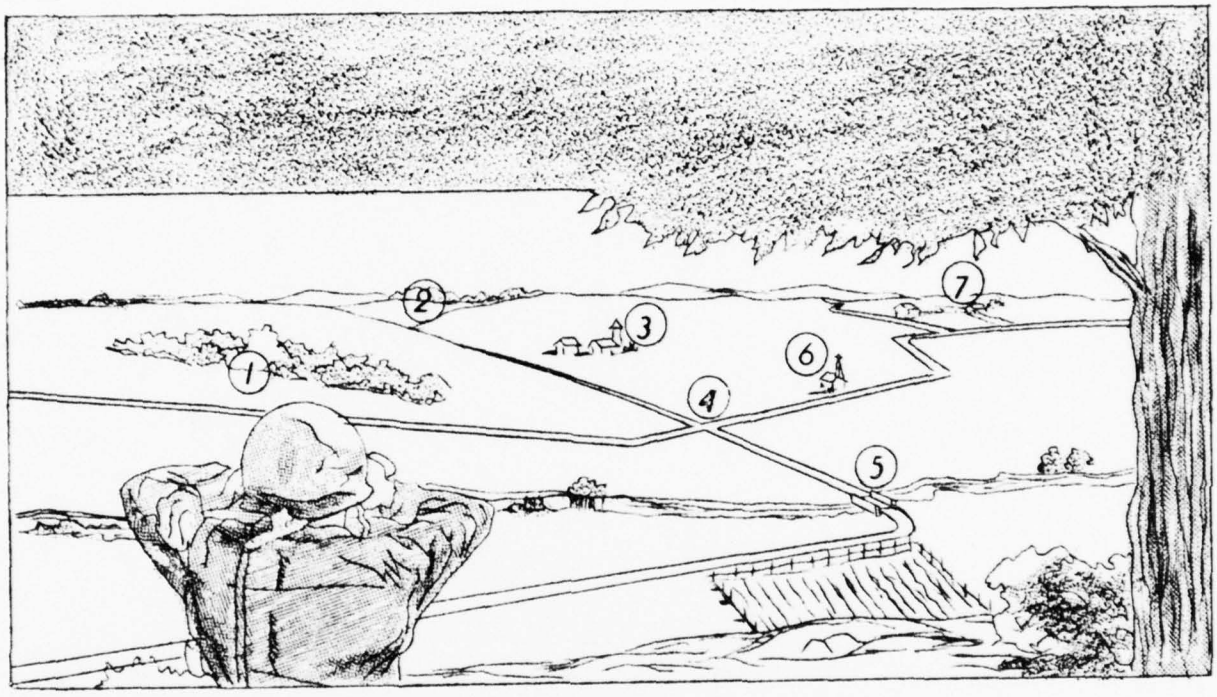
Team B (Company B, 1/1 Armor, with one Armor rifle platoon attached) has been assigned defensive positions overlooking a major road net (See Scene 9), access to which--according to friendly civilians--is covered by numerous enemy antitank guns. In view of this, the commanding officer of Team B has directed that tanks will be kept in turret defilade during daylight and moved into prepared positions after dark. Range cards for each tank and unit fire plans for covering the approaches into the defensive positions are to be prepared and coordinated prior to darkness. You are the platoon leader of the 3d Tank Platoon. Your CO has directed you to keep your tanks in turret defilade during daylight and move them to prepared firing positions after dark. Third platoon targets are numbered 1-7 as shown in Scene 9.

FIRST REQUIREMENT:

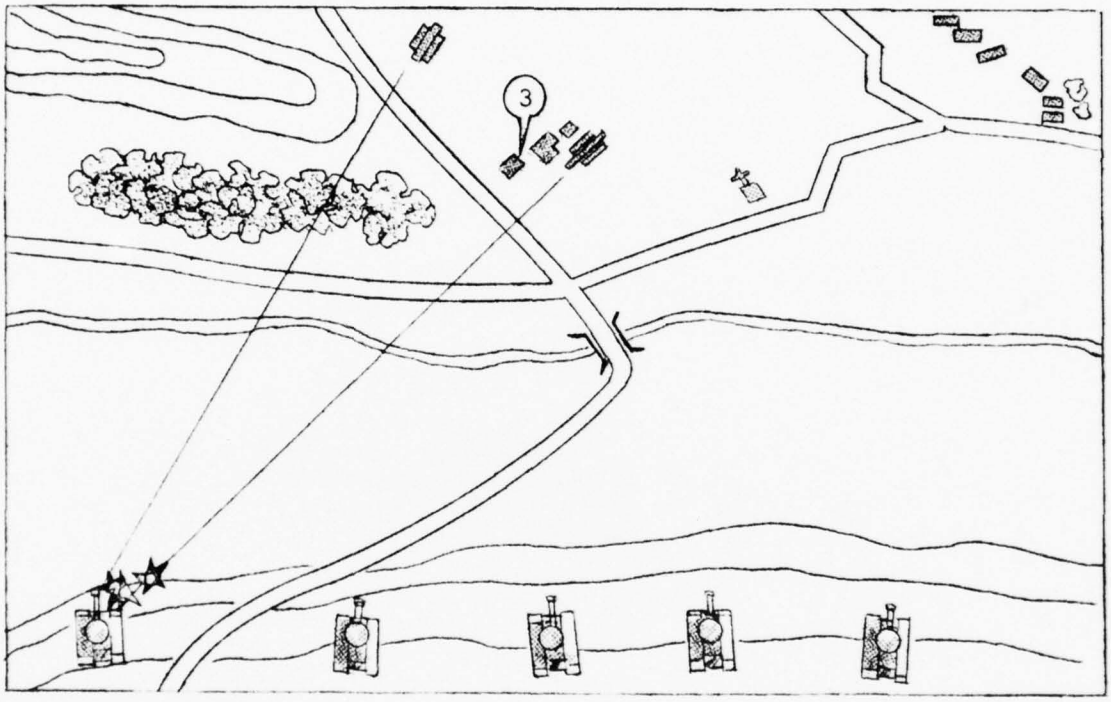
Explain in detail how you will prepare range cards for the tanks of your platoon, and the reason for doing what you do. Also, explain how the tanks will be moved into firing position during darkness.

SITUATION (Continued):

You have selected firing positions and prepared range cards for each tank of your platoon, and, after dark, four tanks moved into position without encountering difficulty. However, at 2025 hours, as your fifth tank was pulling into position, it was fired on by what appeared to be two antitank guns located near Target 3 (See Scene Nr 10). You call for artillery fire on these guns, and are satisfied that at least one of them was destroyed. However, as your crews continue to improve their positions, one of your tanks is fired on and hit by what you determine to be the remaining antitank gun. Your tank commanders report that they observed the muzzle flash of the gun at approximately 50 mils to the left of and at about the same range as Target 3. You decide to engage this weapon. Your Commanding Officer has stated that plans for renewed offensive operations preclude the use of illumination in the area.



Scene 9



Scene 10

SECOND REQUIREMENT:

Explain in detail the method of fire and adjustment you use to engage the antitank gun.

SCORING AND SOLUTIONS

TO

THE COMBAT DECISIONS TEST

PROBLEM I

(Need not be in sequence)	Value	Score
1. Envelopes the enemy left (east) flank.	1	____
2. Move platoon to attack position at point "B".	1	____
3. Destroy enemy at "C", then clear Ridge "X".	1	____
4. Enemy infantry, and at least one AT gun, are located at "C".	1	____
5. Battalion mortar platoon will support by fire.	1	____
6. Platoon will move to "B" in order of march.	1	____
7. Further orders will be issued at "B".	1	____
8. I will be (position in movement to "B").	1	____
9. Any questions?	1	____
10. Move out on my orders.	1	____

TOTAL.....10

PROBLEM II

(Give full credit if action follows scoring sequence. One-half credit for items covered, but not in listed sequence.)

	Value	Score
1. Send over platoon command net the following message:	1	____
a. First section cover front.	1	____
(1) Watch AAA Gun to right front.	1	____
b. Second section cover right flank.	1	____
(1) Watch AAA Gun to right flank.	1	____
c. Fire only on my order, or	1	____
(1) if fired upon.	1	____

PBORLEM II - Continued	Value	Score
2. Send following message to Company Commander:	1	_____
a. Five enemy troop carrier planes, and	1	_____
b. approximately 250 enemy troops,	1	_____
c. preparing to load,	1	_____
d. located at improvised airfield,	1	_____
e. at coordinate_____.	1	_____
f. Two enemy AAA AW guns,	1	_____
g. probably 40mm,	1	_____
h. located at coordinates _____and	1	_____
i. _____.	1	_____
j. My platoon is halted at _____,	1	_____
k. and has not been observed.	1	_____
l. Request instructions.	1	_____

TOTAL.....20

PROBLEM III

	Value	Score
1. Halt the platoon immediately.	1	_____
2. Order each tank		
a. to take up a hull defilade firing position,	1	_____
b. to cover the minefield with fire,	1	_____
c. to cover the disabled tank with fire.	1	_____
3. Order the disabled tank to protect itself with fire.	1	_____
4. Request the supporting artillery battalion to place fire on the enemy positions covering the minefield.	1	_____

PROBLEM III - Continued	Value	Score
5. Request the 4.2 mortar platoon to smoke the area,	1	____
a. placing the smoke screen on the right flank of the platoon,	1	____
b. the smoke screen to be between the minefield and the enemy positions.	1	____
6. Order each tank to dismount <u>one</u> man.	1	____
a. The man selected will be the loader.	1	____
b. The gunner becomes the loader.	1	____
c. The tank commander fires the gun from his normal position.	1	____
7. Dismounted men will probe for mines.	1	____
8. Dismounted men will clear a lane 15 ft. wide.	1	____
9. As mines are located, they will be uncovered.	1	____
a. Mines will <u>not</u> be removed as they are located.	1	____
b. After all mines are located and uncovered, within the 15 ft. lane, they will be removed.	1	____
10. The breached line will be clearly marked.	1	____
11. Tanks will pass through the lane one at a time.	1	____
a. All tanks will cover the tank passing through the lane.	1	____
12. Platoon leader to report location of minefield.	1	____
a. Report disabled tank.	1	____
b. Report breaching the minefield.	1	____
c. Report location of the breach.	1	____

PROBLEM III - Continued	Value	Score
13. Request mortar platoon to lift smoke screen as last tank passes through lane.	1	____
14. Request artillery to lift fire.	1	____
15. Continue advance.	1	____

TOTAL.....28

PROBLEM IV

	Value	Score
1. Request mortar platoon to place smoke on AT gun positions.	1	____
a. Mortar platoon to place HE on AT gun positions.	1	____
2. Request artillery to place <u>air bursts</u> on the bridge.	1	____
3. Platoon leader to take one section to the ford.	1	____
a. The other section to follow by bounds, and	1	____
b. to fire overwatching fires to left flank.	1	____
4. Platoon leader's section crosses ford.	1	____
5. The other section ordered into position to support platoon leader's section by direct fire;	1	____
a. to block or destroy any resistance from TERRELLO.	1	____
6. Platoon leader's section rushes to north end of bridge.	1	____
7. Other section ordered to secure south end of bridge,	1	____
a. OR, this section could follow platoon leader's section across ford, then cross bridge to secure south end of bridge (Score <u>either</u> 7 or 7a, but <u>not</u> both).	1	____

PROBLEM IV - Continued	Value	Score
8. Request that the "height-of-burst" of artillery fire be raised as platoon approaches the bridge.	1	____
9. Both ends of bridge must be secured.	1	____
10. Request artillery fire be <u>shifted</u> (<u>not lifted</u>),	1	____
a. to enemy positions north of bridge.	1	____
11. Check the bridge for demolitions;	1	____
a. disconnect lead wires, if any are found.	1	____
12. Report the situation to the team commander.	1	____

TOTAL.....19

PROBLEM V

FIRST REQUIREMENT	Value	Score
1. Call the right flank tank; order it to move up on line.	1	____
a. Call the tank by number--"No. 5" (Give one-half credit if No. 3).	1	____
2. Order right section to reconnoiter by fire.	1	____
a. Order use of .30.	1	____
b. Designate "Woods to right front."	1	____
3. Order left section to fire at enemy AT gun.	1	____
a. Give direction--left front.	1	____
b. Give exact direction--10 o'clock.	1	____
c. Designate ammunition.	1	____
d. Designate HE specifically.	1	____
SECOND REQUIREMENT		
1. Order right section to concentrate fire on woods.	1	____

PROBLEM V, SECOND REQUIREMENT - Continued	Value	Score
a. Specifically alert right section to the rocket launchers.	1	____
2. Order left section to cease fire on AT gun.	1	____
a. Continue reconnaissance by fire to left front.	1	____
b. Specify use of Cal. .30.	1	____
3. Call Company Commander.	1	____
a. Report enemy mortars.	1	____
b. Report rocket launchers.	1	____
c. Report infantrymen (or small arms fire).	1	____
d. Report location of enemy.	1	____
e. Request fire support.	1	____
f. Report intentions (continuing to advance).	1	____
4. Call platoon leader, center (2nd) platoon.	1	____
a. Request 2nd platoon place fire on woods.	1	____
b. Request specifically, "Woods on your left front."	1	____
THIRD REQUIREMENT		
1. Right section, enemy AT gun 900 yards;	1	____
a. your right front.	1	____
2. Left section, enemy tanks 800 yards;	1	____
a. two enemy tanks;	1	____
b. your left front.	1	____
c. Request artillery fire on AT guns.	1	____
d. Two enemy tanks on road to my left front, moving north.	1	____

PROBLEM V, THIRD REQUIREMENT - Continued	Value	Score
e. My tank is disabled.	1	____
f. Am moving to number ____ tank.	1	____
FIFTH REQUIREMENT	Value	Score
1. Move platoon to far side of objective.	1	____
2. Position tanks to cover enemy avenues of approach.	1	____
3. Prepare to continue the attack.	1	____
4. Obtain a report from each tank in the platoon.	1	____
a. Status of personnel (casualties, etc.)	1	____
b. Status of ammunition requirements.	1	____
c. Status of fuel supply.	1	____
d. Mechanical condition of tanks.	1	____
(1) of weapons.	1	____
5. Report condition of platoon to Company Commander.	1	____

TOTAL.....44

PROBLEM VI

FIRST REQUIREMENT	Value	Score
1. Order the Observation Post to request artillery.	1	____
a. Order OP to adjust the artillery,	1	____
b. on the advancing enemy force.	1	____
2. Alert platoon for action.	1	____
a. Nature of enemy force (composition).	1	____
b. Direction of enemy threat (location).	1	____
3. Call "Company Commander",	1	____
a. report presence of enemy.	1	____

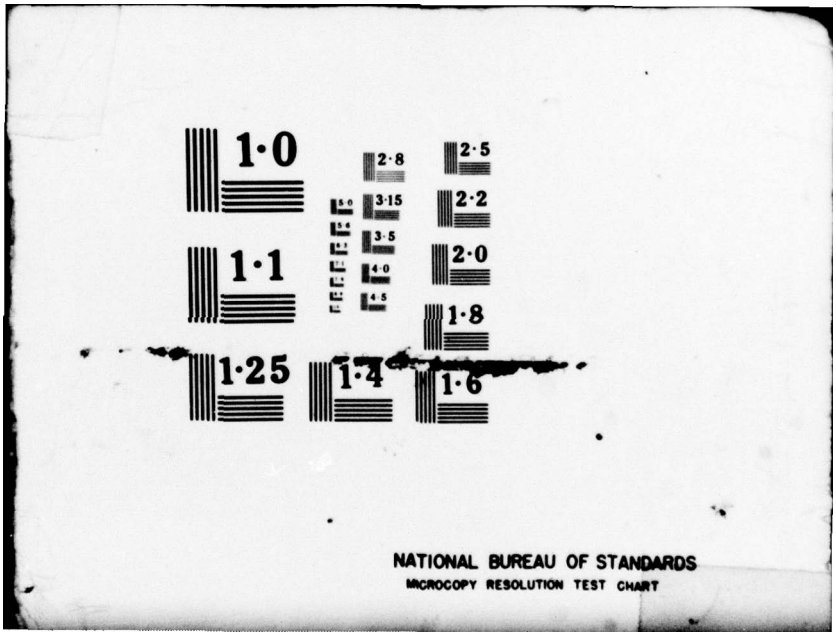
AD-A072 531 HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA F/G 5/9
USER MANUAL FOR THE MINIATURE ARMOR BATTLEFIELD (MAB). APPENDIX--ETC(U)
1962 DA-44-188-ARO-2

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NATIONAL BUREAU OF STANDARDS
MICROCOPY RESOLUTION TEST CHART

PROBLEM VI, FIRST REQUIREMENT - Continued	Value	Score
b. Nature of enemy force (composition).	1	____
c. Direction of enemy threat (location).	1	____
SECOND REQUIREMENT		
1. Call the "Platoon."	1	____
a. Combat Command is going to counter-attack,	1	____
b. execute Plan A.	1	____
2. Call Observation Post Nr 1.	1	____
a. Withdraw within strong point.	1	____
3. Call Observation Post Nr 2.	1	____
a. Hold your position,	1	____
b. adjust artillery fire,	1	____
c. until I order you to withdraw.	1	____
4. Other platoon elements, hold your positions,	1	____
a. support the counterattack by fire.	1	____
TOTAL.....21		

PROBLEM VII

FIRST REQUIREMENT	Value	Score
1. (1)	1	____
2. (2)	1	____
3. (3)	1	____
4. (4)	1	____
5. (7)	1	____
6. (8)	1	____
7. (9)	1	____
8. (10)	1	____

PROBLEM VII, FIRST REQUIREMENT - Continued	Value	Score
9. (11)	1	____
10. (12)	1	____
11. (13)	1	____
12. (14)	1	____
SECOND REQUIREMENT		
1. Select a reference point.	1	____
2. All tanks lay on reference point,	1	____
a. with their direct fire sight.	1	____
3. Zero the azimuth indicator.	1	____
4. Traverse to target.	1	____
a. Show target <u>number</u>.	1	____
b. Show target <u>type</u> (hill, bridge, etc.)	1	____
c. Show deflection to target.	1	____
d. Show quadrant elevation.	1	____
e. Show range to target.	1	____
TOTAL.....22		

PROBLEM VIII	Value	Score
1. Order gunner to lay on the radio tower.	1	____
a. Have gunner zero the azimuth indicator.	1	____
b. Have gunner traverse turret until gun is laid on the strip of road visible to you just beyond "Y".	1	____
2. Note the deflection reading on azimuth indicator.	1	____
3. From map, determine range to RJ at "Y".	1	____
4. Convert this range to quadrant elevation.	1	____

PROBLEM VIII - Continued	Value	Score
5. Give fire command to the platoon.	1	____
a. PLATOON	1	____
b. HE	1	____
c. QUADRANT (120)	1	____
d. REFERENCE POINT	1	____
(1) RADIO TOWER	1	____
e. DEFLECTION (2717) RIGHT	1	____
f. TROOPS	1	____
g. ONE ROUND	1	____
h. AT MY COMMAND	1	____
i. FIRE	1	____
6. Subsequent commands will be based on observer reports.	1	____

TOTAL.....18

PROBLEM IX

FIRST REQUIREMENT	Value	Score
1. Order gunner to index SHOT (or HYPER-SHOT).	1	____
2. Set a range of 800 yards on computer.	1	____
3. Have loader load a round of ammunition.	1	____
4. Have loader shift the rounds in ready rack,	1	____
a. to make additional (SHOT)(HYPERSHOT) (AMMUNITION) readily available.	1	____
SECOND REQUIREMENT		
1. Driver, Stop.	1	____
2. Gunner,	1	____
3. Battle Sight,	1	____

PROBLEM IX, SECOND REQUIREMENT - Continued	Value	Score
4. Tank.	1	____
5. Fire.	1	____

TOTAL.....10

PROBLEM X

	Value	Score
1. Move to a tank with an operative radio.	1	____
2. Platoon leader must be able to communicate.	1	____
3. Avoid risk of inoperative radio net being repaired in time.	1	____
4. Tank with the inoperative radio can still be fought;	1	____
a. can be commanded by TC that was displaced.	1	____
5. Tank with inoperative radio will accompany the platoon.	1	____

TOTAL.....6

PROBLEM XI

FIRST REQUIREMENT	Value	Score
1. Use the aiming circle,	1	____
a. for each tank.	1	____
2. Select the location for each tank.	1	____
a. Set up the aiming circle at the <u>exact</u> spot,	1	____
b. from which each tank will fire.	1	____
3. Place two stakes in line,	1	____
a. approximately 50-100 yards from aiming circle,	1	____
b. at an angle that prevents the enemy from observing the illumination devices.	1	____

PROBLEM XI, FIRST REQUIREMENT - Continued	Value	Score
4. Each stake will have attached illuminating devices, or filtered flash lights.	1	____
5. Sight through the telescope,	1	____
a. zero the aiming circle,	1	____
b. on the stakes.	1	____
6. The stakes are now the RP (reference point) for the tank (or range card position).	1	____
7. Using the upper (recording) motion of the aiming circle,	1	____
a. traverse to each known target,	1	____
b. to obtain the mil reading.	1	____
8. Subtract the reading on the azimuth scale,	1	____
a. from 3200 mils.	1	____
b. Subtract the micrometer reading,	1	____
c. from 3200 mils.	1	____
(1) The result is the deflection to target,	1	____
(2) and is the actual azimuth indicator reading.	1	____
9. Determine the range to the target,	1	____
a. obtain the mil elevation	1	____
b. for that range,	1	____
c. from the 1) graphical firing table, 2) tabular firing table, 3) firing data chart, or the 4) ballistic computer on the tank. (Give credit if any one of the four is mentioned.)	1	____
10. Using the telescope of the aiming circle,	1	____
a. and the elevation scale,	1	____
b. determine the angle of sight	1	____
c. in mils.	1	____

PROBLEM XI, FIRST REQUIREMENT - Continued	Value	Score
11. Center the bubble,	1	____
a. of the telescope level vial,	1	____
b. and elevate (or depress) telescope	1	____
c. until the cross of the telescope reticle is centered on target.	1	____
12. The reading on the elevation scale is the angle of sight to the target.	1	____
a. If the reading is PLUS, it is added,	1	____
b. to elevation for range.	1	____
(1) If the reading is MINUS, it is subtracted,	1	____
(2) from elevation for range.	1	____
13. The result is the quadrant elevation for the target.	1	____
14. If the result is a fraction, or decimal, it is rounded off to the nearest whole mil.	1	____
15. This procedure must be repeated at each tank firing position,	1	____
a. for each target.	1	____
16. Each firing position is marked with engineer tape or some suitable material,	1	____
a. to form a "T".	1	____
17. Each tank will follow the long axis of the "T" to where the long axis intersects the crossbar.	1	____
18. While the tank is moving into position, the <u>loader</u>,	1	____
a. will sight through the gun tube,	1	____
b. to align the lights on the stakes,	1	____
c. one above the other.	1	____

PROBLEM XI, FIRST REQUIREMENT - Continued	Value	Score
19. When the loader can observe the lights through the tube,	1	____
a. he will take command of the tank, and		
(1) direct the actions of the gunner and	1	____
(2) driver, until the lights are in line.	1	____
20. When the gun is aligned on the stakes, the gunner will zero his azimuth indicator.	1	____
SECOND REQUIREMENT		
1. Uses the two-tank method.	1	____
a. Designates tanks 2 and 4 to fire the problem.	1	____
b. Designates tank 2 (or 4) as the firing tank.	1	____
c. Designates tank 4 (or 2) as the observing tank.	1	____
2. Both tanks lay on muzzle flash of anti-tank gun;	1	____
a. using the illuminated reticles of their direct fire sights.	1	____
3. Gunner of <u>each</u> tank zeros his azimuth indicator.	1	____
4. Tank 2 or 4 (the <u>firing</u> tank) indexes the quadrant elevation,	1	____
a. for target 3,	1	____
b. and centers the quadrant bubble.	1	____
5. Tank 2 or 4 (the <u>firing</u> tank) announces ON THE WAY	1	____
a. over the platoon radio net,	1	____
b. then fires.	1	____

PROBLEM XI, SECOND REQUIREMENT - Continued	Value	Score
6. The TC of tank 2 or 4 (the observing tank) observes the burst	1	____
a. in relation to his aiming cross,	1	____
b. which is on target (antitank gun).	1	____
7. The TC of the observing tank announces a sensing,	1	____
a. and issues a subsequent fire command	1	____
b. to the firing tank.		
8. The gunner of the firing tank makes the correction.	1	____
a. When ready, he announces ON THE WAY,	1	____
b. and fires again	1	____
c. until TARGET is sensed.	1	____

TOTAL.....77

