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ARI notice 13 Nov 1979

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6 Scores, means and sigmas on aptitude tests, 9th Cavalry
 9th Cavalry
 Report Study No. 012
 11 1941

Problem: In response to a request, aptitude tests of 37 men in the 9th Cavalry were scored, and the scores, means and sigmas reported.

Variables: 14 AGO-12

Mechanical Movements: Measures a man's aptitude for learning to deal with certain kinds of mechanical problems. Consists of 22 mechanical diagrams with a total of 58 questions about them. 20 minute time limit.

Clerical Checking: Measure of speed in perceiving differences. Two parts of the Air Corps Clerical Aptitude Test. Part I - name checking - 25 questions - 3 min. time limit. Part II - number checking - 50 questions - 3 min. time limit.

Surface Development: Consists of 30 pictures of objects with corresponding patterns that could be cut and folded to make the object. Parts of the pattern are to be matched with parts of the object. Total of 180 questions. Time limit is 15 minutes.

Population: 12 5
 37 colored men in the 9th Cavalry.

Procedure and Results:

The means and sigmas were calculated from the test scores obtained by the 37 men on the three aptitude tests. The results are given below:

	Mean	Sigma
Clerical Checking	43	18
Mechanical Movements	3	6
Surface Development	10	13

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Study No. 012

Percent of Group in each Army Grade for Three Aptitude Tests
37 men, 9th Cavalry, Colored

	Cler. Checking	Mech. Mov.	Surf. Devel.	Corresp. Per Cent Normal Distribution
I	3	13	8	7
II	38	5	19	24
III	35	19	27	38
IV	13	3	3	24
V	11	60	43	7

Constants of Distribution for 3 Aptitude Tests

Given to 37 men, 9th Cavalry, Colored

	Clerical Checking	Mechanical Movements	Surface Development
Mean	$\frac{1593}{37}$ <u>43.054</u>	$\frac{124}{37}$ <u>3.351</u>	$\frac{380}{37}$ <u>10.270</u>
Variance	$\frac{80202}{37} - (43.054)^2$ <u>313.975</u>	$\frac{1718}{37} - (3.351)^2$ <u>35.203</u>	$\frac{10448}{37} - (10.270)^2$ <u>176.905</u>
Sigma	<u>17.719</u>	<u>5.933</u>	<u>13.301</u>
Constants for Conversion to Standard Scores			
$\frac{20}{\sigma}$	1.129	3.371	1.504
$\frac{20}{\sigma} \times M - 100$	- 51.392	- 88.704	- 84.554