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Memorandum rept. nos. 23 and 25.

Memorandum #23  
Trade Test Department

11

8 June 1940

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Correlation of Form 6-R (B) with Alpha Form 16.

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AGB-188

Summary of report.

Form 6-R (B) is a lengthened revision of Thurstone's Surface Development Test.

Both tests were given to 101 Scott Field men (Airplane Mechanics students). Product moment coefficient of correlation was .085. Average Alpha raw score was 135.6 with S.D. of 17.56. This is about 10 points higher than the average score made by unselected groups of incoming Chanute Field recruits. Average 6-R (B) score was 119.4 with S.D. of 33.58; raw scores ranged from 52-178 out of a possible 180.

Previously, Thurstone's Surface Development Test had been correlated with test of mental alertness, Forms 1-R (I) and 1-R (J) for another group of Scott Field men (also mechanics). The results were .120 for Form I-R (I) and .281 for Form I-R (J). It is apparent that there is only a very weak positive relationship between the Surface Development Test-Form 6-R (B) and tests of general mental ability.

*Summary of report on correlation of Surface Development Test with Alpha Form 16. See report on 'Study of Test of Mental Alertness'.*

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Memorandum #25  
Trade Test Department

July 8, 1940

Correlation Between the Otis Test and the Long Alpha Test

Summary of Report

Population: Two groups of incoming Chanute Field recruits, one of 101 men given the Alpha first and one of 105 men given the Otis first. The time limit for the Otis was 30 minutes.

The means and standard deviations are:

	<u>Group One (Alpha First)</u>	<u>Group Two (Otis First)</u>
Alpha Mean	123.76	123.62
Otis Mean	43.76	42.13
Alpha S. D.	22.79	21.87
Otis S. D.	10.52	10.04

It is apparent that the two groups are practically equal insofar as central tendency and variability are concerned.

The product-moment coefficients of correlation are:

	<u>Coefficient of Correlation</u>	<u>Number of Men</u>
Group One (Alpha First)	.809	101
Group Two (Otis First)	.802	105

These correlations represent a fairly high degree of relationship between the two test variables and the correlations remains the same, irrespective of the order of administration.