

Activity: Standard Scores

In solving the first three problems, use the following distribution of achievement test scores.
Note: the mean is 10 and the SD is 5.93.

2,2,5,8,10,10,12,15,17,19

1. Compute the z-score for a raw score of 17 (i.e., the 2nd to last score).

$$z = (x - \text{mean}) / \text{SD} =$$

2. Compute the T and ETS score for a raw score of 5. Hint: Compute z first.

$$z =$$

$$T = 10(z) + 50 =$$

$$\text{ETS} = 100(z) + 500 =$$

3. Find the z-score for a T score of 35 (use normal curve chart).

$$z =$$

4. Find the z-score for an ETS score of 550 (use normal curve chart). (Note: ETS uses the CEEB scores. Refer to Kurpui & Stafford, 2006, p. 78)

$$z =$$

5. Circle the highest score in each row and then identify the highest score overall.

A. T=55	$z = -1.5$	ETS=650
B. $z = .5$	ETS=250	T=60
C. $z = -3.0$	ETS=300	T=35
D. ETS=600	$z = 2.00$	T=40

6. By design, what is the mean and SD for the z-scores in this example and all other examples?

7. By design, what is the mean and SD for the T-scores in this example and all other examples?

8. By design, what is the mean and SD for the ETS-scores in this example and all other examples.