

A group of 78 third-grade students in a midwestern elementary school took a "self-concept" test that measured how well they felt about themselves. Higher scores indicate more positive self-concepts. A histogram and some summary statistics from Minitab for these students' self-concept scores are given below.



Descriptive Statistics: SelfConcept

Variable	N	Mean	Median	TrMean	StDev	SE Mean
SelfConcept	78	56.96	59.50	57.81	12.41	1.41
Variable	Minimum	Maximum	Q1	Q3		
SelfConcept	20.00	80.00	51.00	66.25		

1. Draw an appropriate density curve for summarizing the histogram on the graph above. How would you describe the shape of this density curve?

skewed left

2. One student in the group had a self-concept score of 62. Thirty-four students had self-concept scores higher than 62. Describe the location of this value within the distribution using raw data, percentiles, and standardized values (z-scores).

score of 62 : $\frac{44}{78} = 56.4\%$ percentile

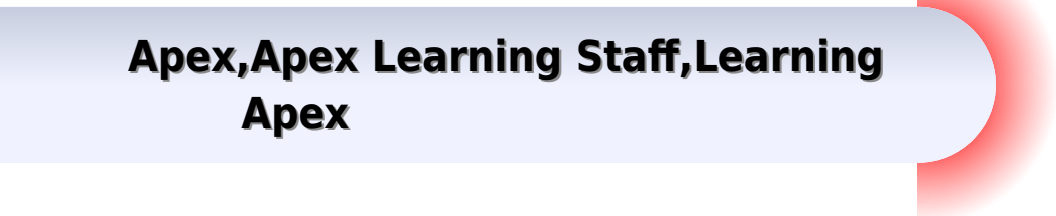
$z = \frac{62 - 56.96}{12.41} \approx 0.41 \rightarrow$ about 0.41 standard deviations above the mean

3. What is a "typical" self-concept score for a third-grader in this group? Justify your answer.

59.5 $\rightarrow$ use the median in a skewed distribution to measure the center because it is more resistant to extreme observations

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