

Entrance Question

On a blank piece of notebook paper...

Josh's test scores follow:

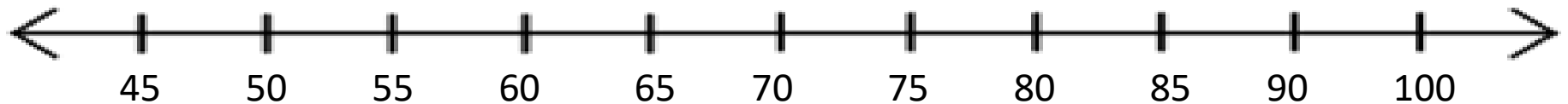
95, 89, 87, 95, 86, and 88

If Josh could have his choice of the three measures of center to be his final grade, which measure of center should he choose?

Measures of Spread: Interquartile Range

Test Grades:

60, 75, 75, 80, 80, 80, 85, 85, 85, 85, 85, 90, 90, 90, 95



What is Q1?

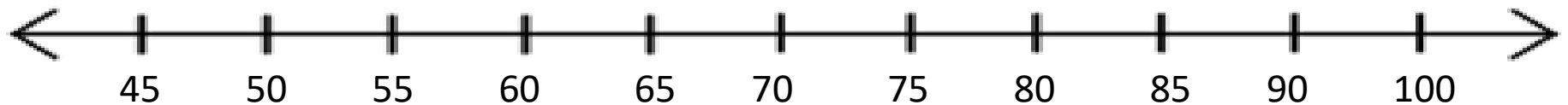
What is Q2 (median)?

What is Q3?

Measures of Spread: Interquartile Range

Test Grades:

60, 75, 75, 80, 80, 80, 85, 85, 85, 85, 85, 90, 90, 90, 95



What is range? _____

What is the IQR? _____

Measures of Spread:

Which data set do you think has MORE variability?

Set A: 12, 14, 15, 15, 19, 19, 20, 26

Set B: 16, 16, 19, 19, 20, 22, 22, 26

Measures of Spread:

Range

Interquartile Range (IQR)

Mean Absolute Deviation (MAD)

Mean Absolute Deviation

“The average distance from the mean”

2, 8, 12, 12, 14, 19, 21, 24

Step 1: Find the mean.

Step 2: Find each value's distance from the mean.

Step 3: Find the mean of those distances.

More variability? (MAD)

Set A: 12, 14, 15, 15, 19, 19, 20, 26

Distance
from Mean

Mean:

MAD:

Set B: 16, 16, 19, 19, 20, 22, 22, 26

Distance
from Mean

Mean:

MAD: