

AVERAGES

3 types: Mean, Median, Mode

Mean = $\frac{\text{sum of values}}{\text{number of values}}$

Median = middle value (when arranged in order)

Mode = most frequent value

{12, 13, 15, 15, 17}

Mean = $\frac{12 + 13 + 15 + 15 + 17}{5} = \frac{72}{5} = 14.4$

Median = 15

Mode = 15

Range = $17 - 12 = 5$

1

{7, -1, 2, -3, 2, -3, -2, 4}

{-3, -3, -2, -1, 2, 2, 4, 7}

Mean = $\frac{7 - 1 + 2 - 3 + 2 - 3 - 2 + 4}{8} = \frac{6}{8} = 0.75$

Median = $\frac{-1 + 2}{2} = 0.5$

Mode = -3 and 2 (bimodal)

Range = $7 - (-3) = 10$

2

Range is not an average: it is a simple measure of spread
Range = highest value - lowest value