



Essential Question

How do you find mean, median, mode and range and use them to describe a data set?

Homework is on Khan Academy.

Due by Thursday night

MEAN, MEDIAN, MODE & RANGE

(M+E+A+N) ÷

the average of a set of data found by adding all the numbers together and dividing by how many data points there are.

1. $6+4+7+5+3 = \frac{25}{5} = 5$

- 1. 6, 4, 7, 5, 3

2. $19, 21, 16, 24 \quad 80 \div 4 = 20$

3. $5, 3, 8, 9, 6, 5, 9, 7 \quad 6.5$

$8, 17, 11, 14 = 52$
 $25+27 = 52$

$\begin{array}{r} 19 \\ 21 \\ 16 \\ +24 \\ \hline 80 \end{array}$

$8 \overline{)52.0}$
 $\underline{48}$
 40

the middle number of an ordered set of data



- 1. 7, 9, 5, 7, 3 3, 5, 7, 7, 9
- 2. 18, 10, 14, 8, 20, 25 8, 10, 14, 18, 20, 25

Two in the middle? Add them & divide by 2

$\frac{14+18}{2} = \frac{32}{2} = 16$

MEASURES OF CENTER

Describes a data set by identifying a "typical" number

MEASURE OF VARIABILITY

Describes a data set by identifying how spread out the data is

the difference between the highest and lowest numbers

HIGH - LOW

RANGE

MODES

the number that occurs most often

- 1. 5, 8, 3, 8, 4, 8, 5 8
- 2. 4, 9, 6, 9, 4, 7 9 and 14
- 3. 7, 2, 5, 3 No mode

1. $15 - 8 = 7$

2. $8 - 4 = 4$

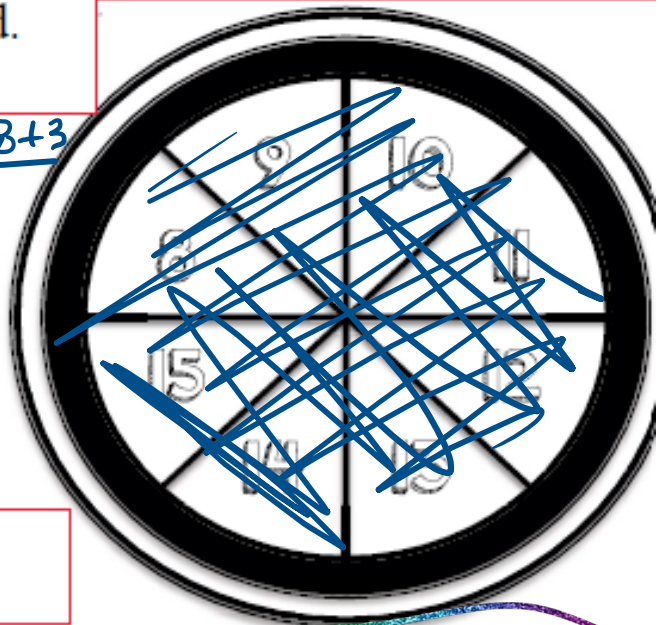
>>>>>>>>>> SPIN & SOLVE <<<<<<<<<<<<

1) Use the numbers below to answer a - d.
9, 8, 11, 5, 2, 8, 3

Handwritten calculations for the first set of numbers:

$$\begin{array}{r} 657 \\ +600 \\ \hline 1257 \\ -420 \\ \hline 837 \\ -350 \\ \hline 487 \\ -490 \\ \hline -3 \end{array}$$

- a Find the mean. $\frac{9+8+11+5+2+8+3}{7} = 6.57$
- b Find the median. 2, 3, 5, 8, 8, 9, 11
- c Find the mode. 8
- d Find the range. $11 - 2 = 9$



2) Use the numbers below to answer a-d:
9, 15, 15, 5, 4, 11, 8, 7, 8, 5

10 37

- a Find the mean. 8.7
 - b Find the median. = 8
- 4 5 5 7 8 8 9 11 15 15

- c Find the mode. Three Modes: 5, 8, and 15
- d Find the range. $15 - 4 = 11$

SPLAT

Oh no! Paint splattered all over the data sets below. Help uncover the hidden numbers.

10 8 7 7 5
Mode = 7

3 9 12 8 7 2
Range = 10
 $10 = \square - 2$

12 8 4 10 9
Median = 9
4 8 9 □ 12

3 4 7 6
Mean = 5
 $\frac{\square + 4 + 7 + 6}{4}$

4 12 10 6
Median = 8

9 5 8 7 5 8
Mean = $7 \times 6 = 42$

Homework is on Khan Academy.

Due by _____.

$4 \square + 10 = 12$
 $\square = 8$

$42 - (34) = 8$

$(4)(5) = 20 = 17 + \square$

$16 = \square + 10$