HELPTIP 1

Tip # 1

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- Put numbers in order from least to greatest
- 2. Mark off high and low values until you reach the middle
- 3. IF there are 2 middle numbers, add them together and divide by 2

Mean:

- 1. Add all the values together in the dataset
- Divide by how many numbers are in the set

Mode:

Find the number that appears the most *there could be more than one mode OR no mode at all

Range:

Subtract the lowest number from the highest number

Example:

3, 5, 6, 3, 7, 2, 4, 8, 8, 9, 10, 3, 2, 1, 10, 5

Median:

Order from least to greatest 1, 2, 2, 3, 3, 3, 4, 5, 5, 6, 7, 8, 8, 9, 10, 10 Mark off high and low values



Add together and divide by 2 $5 + 5 = 10 \div 2 = 5$

Median: 5

<u> Mode:</u>

Number that appears the most

1, 2, 2(3, 3, 3, 4, 5, 5, 6, 7, 8, 8, 9, 10,

Mode: 3

Mean:

Add dataset together 1+2+2+3+3+3+4+5+5+6+7+8+8+9+10+10 = 86

Divide by how many numbers are in the set $86 \div 16 = 5.4$ (rounded to the nearest tenth)

<u> Mean: 5.4</u>

Range:

Subtract the lowest number from the highest 10 - 1 = 9

Range: 9

Outlier: a value that is much higher or much lower than the other values in a set of data 1, 2, 2, 3, 3, 3, 4, 5, 5, 6, 7, 8, 8, 9, 10, 10, 47 \rightarrow 47 would be an <u>outlier</u>, it is much higher than the set of data

HELPTIPS 2-4

Tip # 2

If you only get one answer, it is not statistical.

- How old is your brother?
- How many siblings does your best friend have?
- Who is your favorite singer?

If you get a variety of answers it is statistical.

- How old are the students in your school?
- What are the favorite colors of each person on the soccer team?
- What is my family's favorite genre of music?

Tip #3

Understanding that a ratio is a comparison between two different things.



There are 6 faces and 3 hearts. For every 6 faces there are 3 heart. 6:3



There are 4 moons and 3 suns. For every 4 moons there are 3 suns. The ratio would be 4:3

Tip # 4

Using ratio reasoning to solve problems.

i.e

We paid \$40 for 8 hamburgers, which is a rate of \$____ per hamburger.

$$\frac{hamburgers}{cost} = \frac{hamburgers}{cost}$$

$$\frac{8}{40} = \frac{1}{x}$$
 Multiply diagonals and set equal to each other

$$8(x) = 40(1) \rightarrow 8x = 40$$
 Solve for x by dividing $40 \div 8$

$$X = 40 \div 8 \rightarrow x = 5$$

If 8 hamburgers cost \$40, then 1 hamburger is \$5.