Mean, Median, Mode and Range

Mean -

Examples:

- 1. Matthew's test grades are 80, 92, 85, 91, and 88. Find the mean of his grades.
- 2. To qualify for a donut eating competition, Sally must average eating 15 donuts in 10 minutes. In her practice trials Sally ate 16, 12, 15, 15, 11, and 13. What is the mean of donuts Sally eats? Can she enter the competition?

Median -

Examples:

1. Find the median for the given set of numbers 3, 7, 9, 8, 4, 6, 2, 7, 9, 10, 6.

What is the median of the data set?

Mode -

Examples:

- 1. Find the mode for the given set of numbers 3, 7, 9, 8, 4, 6, 2, 7, 9, 10, 6.
- 2. Find the mode weight of the textbooks in a student's locker: 12, 14, 16, 18, 18, 20.

Range –					
Examples: 1. Find the range for the given set of num	bers 3, 7, 9, 8, 4, 6, 2, 7, 9, 10	, 6.			
2. Find the range of the weight of textboo	oks in a student's locker: 12, 14	., 16, 18, 18, 20.			
Let's put it all together Mr. Falci and some other teachers played in an 18-hole golf tournament. The scores are listed below.					
82, 89, 87,	86, 88, 83, 120, 89				
mean median	mode	range			
True or False? 1. mean > median	2 median z modo				
1. mouit / mouiaii	2. median < mode				
3. mode = range	4. mode > mean				

Measure of Central Tendency

Which measure of central tendency best represents the golf score for the teachers? Why?

Mean, Medi	an, Mode	and	Range
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Mean - add up #3 = how mony numbers Here are

Examples:

1. Matthew's test grades are 80, 92, 85, 91, and 88. Find the mean of his grades.

80+92+85+91+88	436	[A 2 2]
5	5	87. 2

2. To qualify for a donut eating competition, Sally must average eating 15 donuts in 10 minutes. In her practice trials Sally ate 16, 12, 15, 15, 11, and 13. What is the mean of donuts Sally eats? Can she enter the competition?

Huts sally eats? Can she enter the competition? $\frac{10+12+15+15+11+13}{6} = \frac{82}{6} = \frac{13.7}{13.7}$ Cont enter the competition?

Median - (1) Least to Greatest

- Examples: 2 Middle # [If 2 then find mean of both)
- 1. Find the median for the given set of numbers 3, 7, 9, 8, 4, 6, 2, 7, 9, 10, 6.

2, 3, 4, 6, 6 7 7, 8, 9, 9, 16

What is the median of the data set?

2, -4, 1, 7, -3, 0, -2, 6, 3, -1, -5, 4

Mode-# that appears Median = 0.5

Examples:

1. Find the mode for the given set of numbers 3, 7, 9, 8, 4, 6, 2, 7, 9, 10, 6.

Mode: 6, 7, and 9

2. Find the mode weight of the textbooks in a student's locker: 12, 14, 16, 18, 18, 20.

Mode: 18

Range - biggest # - Smallest #

Examples:

1. Find the range for the given set of numbers 3, 7, 9, 8, 4, 6, 2, 7, 9, 10, 6.

10-2=8

2. Find the range of the weight of textbooks in a student's locker: 12, 14, 16, 18, 18, 20.

20-12= 8

Let's put it all together....

Mr. Falci and some other teachers played in an 18-hole golf tournament. The scores are listed below.

82, 89, 87, 86, 88, 83, 120, 89 724 82, 83, 86, 88, 83, 120, 89 82, 83, 86, 87, 88, 89, 89, 120

mean 90.5 median 87.5 mode 89 range 38

True or False?

90.5 > 87.5 1. mean > median | rue 87.5 < 89 True

2. median < mode True

3. mode = range | False | 4. mode > mean | False

Measure of Central Tendency

Which measure of central tendency best represents the golf score for the teachers? Why?

The median because it lies in the middle of the data values and is not affected by the

Stray Value