

3/3/10

Objective:



TSWBAT find
mean, median,
and mode.

Vocabulary:

mean: the average of a set of numbers. It is the sum of the data divided by the number of data items.

outlier: a data item that is much greater or less than the rest of the data items.

median: the middle number in a set of ordered numbers.

mode: the data item that appears most often.

Finding Mean

Alena took four science tests. She scored 81, 77, 92, and 89.

Find the mean of the test scores.

1. add all of the scores together.

$$81 + 77 + 92 + 89 = 339$$

2. divide the sum by the total number of test scores.

$$339 \div 4 = 84.75$$

Practice:

1. 3, 2, 8, 4, 2, 3, 1, 5

2. 12, 23, 19, 32, 26

3. 4, 16, 20, 40

4. 5, 15, 75, 105, 85

Finding Median

Find the median of the following set of numbers.

19, 18, 22, 23, 20, 24, 23, 20, 34, 19

1. put the set of numbers in order from least to greatest.

18, 19, 19, 20, 20, 22, 23, 23, 24, 34

2. since there are an even amount of numbers find the mean of the two middle numbers.

$$20 + 22 = 42 \quad 42 \div 2 = 21$$

3. what is the outlier of the set of numbers?

34

Practice:

Find the median and outlier of the set of numbers.

1. 86, 90, 88, 84, 102, 95, 7

2. 8, 42, 13, 7, 50, 91

Finding Mode

* if all of the items in a set show up the same number of times then there is no mode.

Find the mode.

8, 7, 8, 9, 8, 7

1. put the numbers in order from least to greatest.

7, 7, 8, 8, 8, 9

2. find the number that shows up most often.

8

Practice:

1. 95, 80, 91, 92, 94, 94, 98

2. 15, 12, 17, 13, 20, 19

3. 23, 24, 27, 25, 26, 23, 21