

Warmup

1. Divide $23.94 \div 0.6$

2. *Solve and Check*

$$y - 8.3 = 16.6$$

3. The test scores for a class are: 88, 88, 68, 76, 76, 64, 100, 84, 80, 72, 80, 88, 80, 96, 88, 76, 68, 96, 92, and 80.

Grade	Tally	Frequency
91-100		
81-90		
71-80		
61-70		

How many students have a grade between 81-90? _____

The teacher requires all students who score a 70 or less to attend extra help. How many students are required to attend extra help? _____

How many students are in the class? _____

What is the range of grades? _____

Statistics: Mean, Median, Mode, and Range

- I. Mean
- II. Mode
- III. Median

Homeschool



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Pre-Algebra and Geometry I

Wendy Harper

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I. Mean: The Average of the Data

Mean: Mean is another word for average. To calculate the mean divide the sum of the data by the number of members in the data set.

Find the mean of 4, 6, 2, 5, 5

$$4 + 6 + 2 + 5 + 5 = 22$$

There are 5 members

$$22 \div 5 = 4.4 \quad \text{The mean is } 4.4$$

Find the mean of the grades for the students in Warmup #3

4. Find the mean age of the youth in choir. The ages are 15, 12, 14, 16, 13, 14, 15, 13, 14, and 15. Round the mean to the nearest whole number.

Mode: Mode refers to the number or numbers that occurs most often. To determine the mode divide write the numbers in numerical order, then determine the number or numbers that occur the most often.

Find the mode of 4, 6, 2, 5, 5
2, 4, 5, 5, 6 5 occurs the most often.
The mode is 5.

Find the mode of the grades for the students in Warmup #3

When multiple numbers occur the most, there will be more than one mode.

Find the mode of:

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

Find the mode of:

8, 9, 10, 11, 12, 13, 14, 15, 16

Find the mode
of:

1, 2, 3, 3, 4, 5

6. Find the mode of the youth age in choir. The ages are 15, 12, 14, 16, 13, 14, 15, 13, 14, and 15

III. Median



Median: The median is the middle number when the data is written in order from the least to greatest. When there are two middle numbers, the median is the average of the two numbers.

Find the median of 4, 6, 2, 5, 5
2, 4, 5, 5, 6

The middle number is 5.

The median is 5.

Find the median of 1, 4, 6, 3
1, 3, 4, 6

The middle numbers are 3 and 4

The median is 3.5.

Find the median of the grades for the students in Warmup #2

64, 68, 68, 72, 76, 76, 76, 80, 80, 80, 80, 84, 88, 88, 88, 88, 92, 96, 96, 100

9. Find the median of the youth age in choir. The ages are 15, 12, 14, 16, 13, 14, 15, 13, 14, 15

10. Find the median grade when the class grades are 100, 98, 78, 92, 91, 96, and 86.

Measures of Central Tendency: The mean, median, and mode are three ways to describe the “center point” of the data set. Depending on how the data is being used, one method may be better.

11. The 16 students in Jana's math group were told to conduct a survey, then calculate the mean (rounded to 0 decimal places), median, and mode of the data. The group decided to find the average of their last test grade. The data set is 70, 100, 70, 100, 60, 70, 30, 70, 90, 40, 80, 50, 100, 80, 30, 30.

1. Put the numbers in numerical order

4. Calculate the mean

2. Determine the mode(s) _____

3. Determine the median _____