

MEAN, MEDIAN, MODE, AND RANGE

Cheat Sheet

MEAN

Also known as AVERAGE.

Say this in a "MEAN" voice:

1. ADD
2. COUNT
3. DIVIDE

This means:

1. ADD all the numbers together.
2. COUNT how many numbers you added together.
3. DIVIDE the total of the numbers you ADDED (step 1) by the amount of numbers you COUNTED (step 2).

Example:

94, 81, 95, 86, 82, 90, 95

1. ADD the numbers together:
 $94 + 81 + 95 + 86 + 82 + 90 + 96 = \mathbf{623}$
2. COUNT how many numbers you added together:

94	81	95	86	82	90	95
1	2	3	4	5	6	7

You added **7** numbers together.

3. DIVIDE the total of the numbers you ADDED (623) by the amount of the numbers you COUNTED (7):

$$\mathbf{623 \div 7 = 89}$$

The **MEAN** (average) is **89**.

MEDIAN

Say this tongue twister three times quickly to remember:

Median middle, median middle, median middle.

1. Put all the numbers in order from least to greatest.
2. Cross off one number from each end until you are left with the number in the middle.
3. If you end up with two numbers in the middle, find the mean of those two numbers.

Example:

94, 81, 95, 86, 82, 90, 95

1. Put the numbers in order from least to greatest:
81, 82, 86, 90, 94, 95, 95
2. Cross off one number from each end until you are left with the number in the middle:

~~81~~, ~~82~~, ~~86~~, 90, ~~94~~, ~~95~~, ~~95~~

The number left in the middle is the median.

The **MEDIAN** is **90**.

Here is an example where two numbers are left in the middle:

~~81~~, ~~82~~, ~~86~~, 90, 94, ~~95~~, ~~95~~

Find the mean of the two numbers left in the middle by adding them together and dividing by 2.

$$90 + 94 = 184$$

$$184 \div 2 = 92$$

The **MEDIAN** is **92**.

MODE

Say this tongue twister three times quickly to remember:

*Mode most, mode most, mode most,
it's not the biggest, it's there the most!*

1. Look at each number.
2. Count how many times it shows up in the list of numbers.
3. The one that shows up the most is the mode.

Example:

94, 81, 95, 86, 82, 90, 95

Look at each number and count how many times it shows up in the list of numbers.

94	81	95	86	82	90
1	1	2	1	1	1

94, 81, 86, 82, and 90 all show up one time, but 95 shows up twice.

Since 95 is there the most, it is the mode.

The **MODE** is **95**.

RANGE

Say this and make up some hand movements to go with it to remember:

Range: You take the biggest and the smallest and subtract!

1. Find the biggest number in the list.
2. Find the smallest number in the list.
3. Subtract them to find the range.

Example:

94, 81, 95, 86, 82, 90, 95

1. The biggest number in the list is **95**.
2. The smallest number in the list is **81**.
3. Subtract the numbers:

$$95 - 81 = 14$$

The **RANGE** is **14**.

Name: _____

Skill: Averages / Mean

MEAN
OR
Finding Averages

Find the averages.

Show your work and write your answer on the line.

a. 4, 3, 8, 5

avg: _____

b. 9, 2, 7

avg: _____

c. 2, 0, 5, 1, 2

avg: _____

d. 12, 12, 6, 6

avg: _____

e. 7, 4, 11, 6

avg: _____

f. 16, 2

avg: _____

g. 6, 2, 2, 12, 3

avg: _____

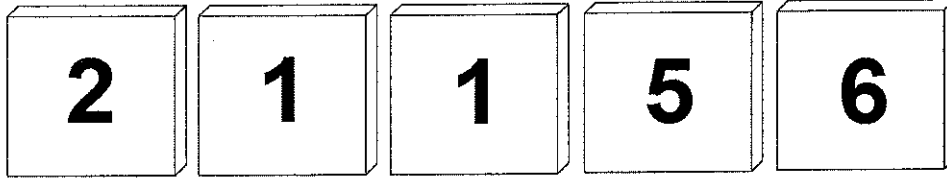
h. 9, 17, 1

avg: _____

Name: _____

Mean, Median, Mode, and Range

Find the mean, median, mode, and range for each set of numbers.

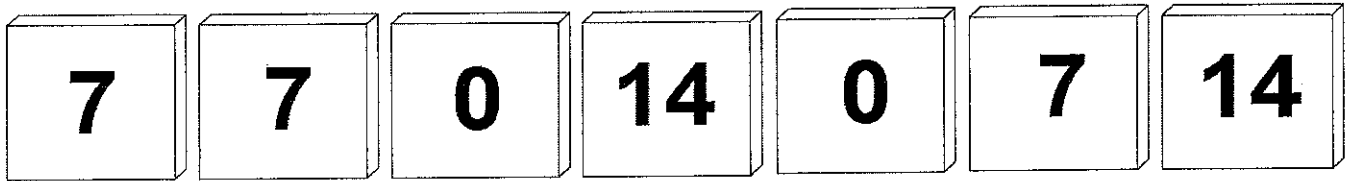


median - _____

mode - _____

range - _____

mean - _____

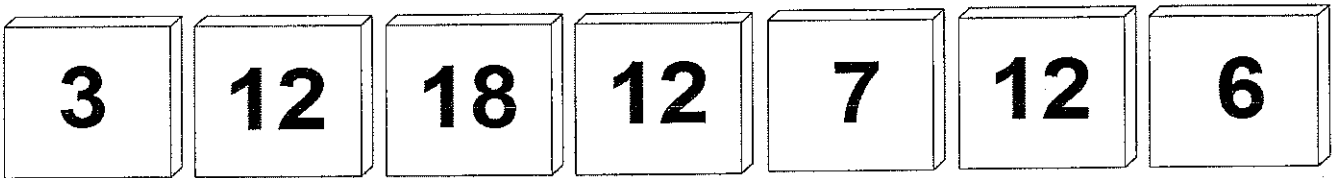


median - _____

mode - _____

range - _____

mean - _____



median - _____

mode - _____

range - _____

mean - _____

Name: _____

Mean, Median, Mode, and Range

Find the mean, median, mode, and range for each set of numbers.

a. 3, 4, 9, 7, 7

mean: _____

median: _____

mode: _____

range: _____

b. 15, 3, 3

mean: _____

median: _____

mode: _____

range: _____

c. 3, 0, 0, 2, 0

mean: _____

median: _____

mode: _____

range: _____

d. 5, 6, 5, 2, 4, 5, 1

mean: _____

median: _____

mode: _____

range: _____

e. 10, 6, 3, 10, 1

mean: _____

median: _____

mode: _____

range: _____

f. 4, 6, 2, 6, 9, 3, 5

mean: _____

median: _____

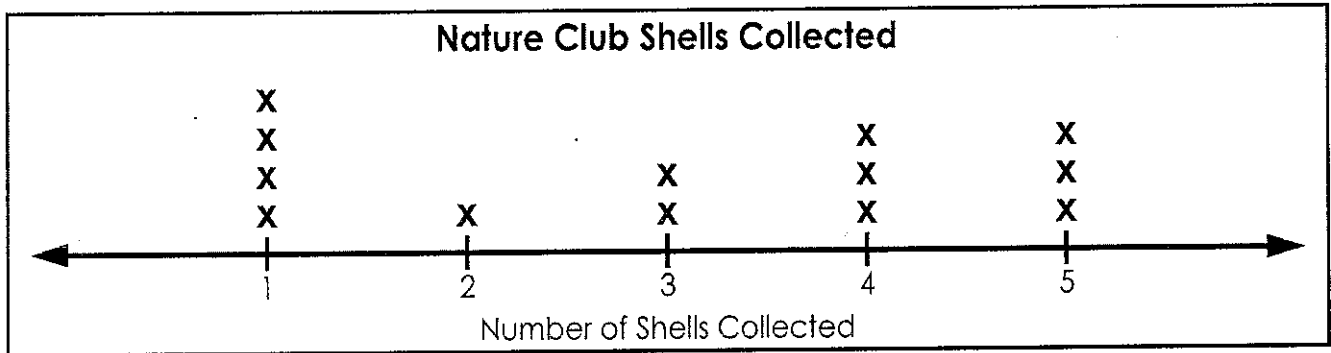
mode: _____

range: _____

Name: _____

Line Plot: Median, Mean, Mode, and Range

The nature club at Westville Middle School went on a field trip to the seashore. Each member collected seashells to put on display at the school. The line plot below shows how many shells each club member collected.



1. What is the median number of shells collected? _____
2. What is the mode? _____
3. What is the range? _____
4. How many shells were collected in all? _____
5. What is the mean, or average, number of shells collected? _____