Data can also be skewed based on the relationship between the Mean, Median and Mode. The way we describe the skew is based on the direction of the "tail".



## Graph B:

Number of Pets


Now, look at the SHAPE of both graphs.
Which graph is skewed left? $\qquad$
Do either of the graphs have an outlier? $\qquad$
What is the peak of Graph B? $\qquad$
Does Graph A have any gaps? $\qquad$

## Mode (a.k.a. "the most")

The mode is the number that occurs the most in a set of data. You will have no mode if all of the numbers in your data have the same frequency. You will have more than one mode if more than one number occurs most in a data set.
Example: Find the mode of $6,4,10,11$, and 4 . Mode $=\underline{4}$

## You Try:

a. Find the mode of $8,33,20,11,6$, and 12. $\qquad$
b. Find the mode of $1,3,4,1,5,6$, and 3 . $\qquad$
c. Find the mode of $15,62,76$, and 62 . $\qquad$

More Practice: Find the mean, median and mode for the following data:

$$
3,5,13,6,1,2,3,2,1
$$

Mean: $\qquad$
Median: $\qquad$
Mode: $\qquad$

$$
100,111,122,133,144,155,166
$$

Mean: $\qquad$
Median: $\qquad$
Mode: $\qquad$
84, 140, 105, 119, 105, 84, 105
Mean: $\qquad$
Median: $\qquad$
Mode: $\qquad$

## Mean, Median \& Mode Extra Practice

1) What is the median of the following set of numbers? $\qquad$

$$
\{1,2,4,6,4\}
$$

2) What is the mean of the following set of numbers? $\qquad$

$$
\{4,3,1,9,3,7,3,5,10\}
$$

3) What is the median of the following set of numbers? $\qquad$

$$
\{4,9,6,3,4,2\}
$$

4) What is the mode of the following set of numbers? $\qquad$

$$
\{1,2,4,6,4\}
$$

5) What is the mean of the following set of numbers? $\qquad$

$$
\{8,10,10,10,4,6,8\}
$$

6) What is the median of the following set of numbers? $\qquad$

$$
\{8,10,8,5,4,7,5,10,8\}
$$

7) What is the mode of the following set of numbers? $\qquad$
$\{8,10,8,5,4,7,5,10,8,10\}$
8) What is the median of the following set of numbers? $\qquad$

$$
\{18,17,9,9,14,20,18\}
$$

9) What is the mode of the following set of numbers? $\qquad$

$$
\{16,18,10,12,11,5,9\}
$$

10) What is the mean of the following set of numbers? $\qquad$
$\{15,17,16,10,17,7,11,19\}$
