SLOT: I can find measures of central tendency of a given data set. Name: _____

Mean/Median/Mode/Range Tips	Thursday, January 24, 2019	Friday, January 25, 2019
Mean: Often referred to as the "average" • Find the sum of the data • Divide the sum by the number of data points.	**I can** _____ _____ .	**I can** _____ _____ .
	31, 92, 25, 69, 80, 31, 29	83, 23, 24, 71, 52, 62, 63

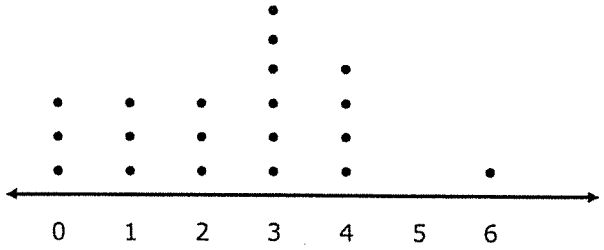
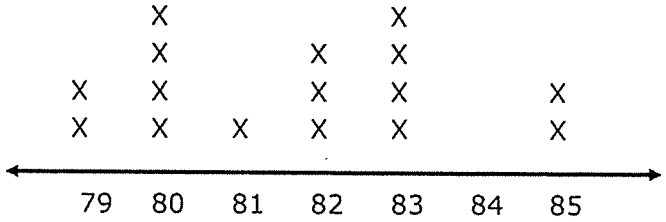
Median: The middle value of a data set
• Arrange the data in order from smallest to largest
• Cross out the same amount of data from each side
  ○ If there is an odd number of data points the median is the middle piece of data
  ○ If there are an even number of data points find the mean of the middle two
	MEAN:
	
	MEDIAN:
		MEAN:
		
		MEDIAN:

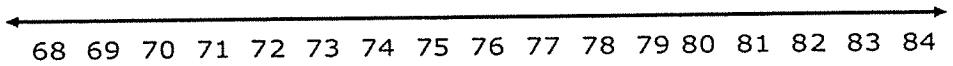
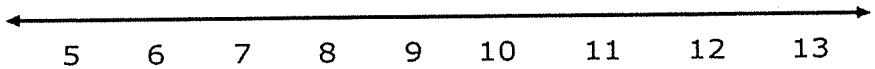
Mode: The most frequent value in a data set • If no values repeat there is not a mode • It is possible for a data set to contain more than one mode	**MODE:**	**MODE:**
Range: The difference between the largest and smallest values in the data set • Largest Value – Smallest Value	**RANGE:**	**RANGE:**

Week 2 SLOT: I can compute mean, median, mode & range.
I can interpret and construct dot plots.

Name: _____

Hour: ____

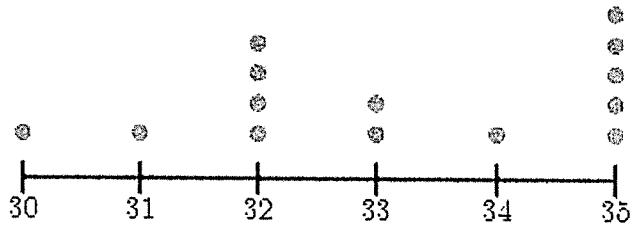
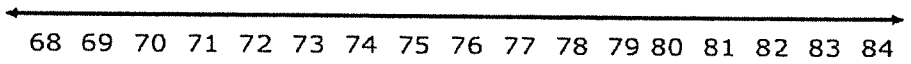
Monday, January 28, 2019	Tuesday, January 29, 2019
I can _____	I can _____
The students in one social studies class were asked how many brothers and sisters (siblings) they each have. The dot plot here shows the results. Use the dot plot to calculate the following.	The resting pulse rates were recorded for 16 boys in gym class before they exercised. The line plot here shows the results. Use the dot plot to calculate the following.
 Number of siblings	 Resting Pulse Rate in beats per minute (BPM)
MEAN: **MEDIAN:**	**MEAN:** **MEDIAN:**
MODE: **RANGE**	**MODE:** **RANGE**
SLOT Quiz Friday!	**SLOT Quiz Friday!**

Thursday, January 31, 2019	Friday, February 1, 2019
I can _____	I can _____
The heights of 20 basketball players, in inches, are given below. 68, 70, 70, 71, 75, 80, 81, 82, 84, 75 75, 80, 75, 77, 75, 80, 83, 80, 71, 70 Use this data to construct a dot plot. Then use the dot plot to calculate the following values.	The ages of 22 students in a karate class are given below. 11, 5, 9,13, 8, 9, 9,11,10, 8, 6, 7, 12, 11, 13, 12, 7, 6, 11, 12, 10, 8 Use this data to construct a dot plot. Then use the dot plot to calculate the following values.
 	
MEAN: **MEDIAN:**	**MEAN:** **MEDIAN:**
MODE: **RANGE**	**MODE:** **RANGE**
SLOT Quiz Tomorrow!	**SLOT Quiz Today!**

SLOT Week 3: I can construct and interpret dot plots.

Name: _____

Hour: ____

Monday, February 4, 2019	Wednesday, February 6, 2019
I can _____ _____ .	I can _____ _____ . The height's of 20 basketball players, in inches, are given below. 68, 70, 70, 71, 75, 80, 81, 82, 84, 75 75, 80, 75, 77, 75, 80, 83, 80, 71, 70 Use this data to construct a dot plot. Then use the dot plot to calculate the following values.
The dot plot below represents the number of pushups members of the baseball team can do in one minute.  Number of pushups	
Calculate the following: **Mean:** **Median:**	**MEAN:** **MEDIAN:**
Mode: **Range:**	**MODE:** **RANGE**
SLOT Quiz Friday!	**SLOT Quiz Friday!**

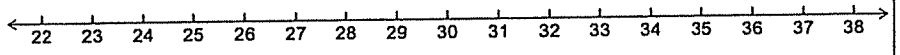
Thursday, February 7, 2019

I can _____
_____ .

Below is the age of each player in the St. Louis Rams starting lineup:

24, 24, 25, 25, 23, 26, 25, 26, 37, 30, 33, 26, 28, 27, 31, 29, 23, 25, 25, 23, 28, 31

Represent the data in the form of a dotplot.



Calculate the following:

Mean: **Median:**

Mode: **Range:**

SLOT Quiz Tomorrow!

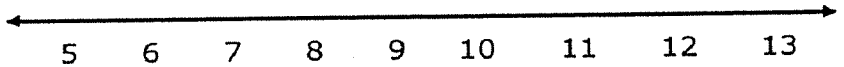
Friday, February 8, 2019

I can _____
_____ .

The ages of 22 students in a karate class are given below.

11, 5, 9,13, 8, 9, 9,11,10, 8, 6, 7, 12, 11, 13, 12, 7, 6, 11, 12, 10, 8

Use this data to construct a dot plot. Then use the dot plot to calculate the following values.



MEAN: **MEDIAN:**

MODE: **RANGE**

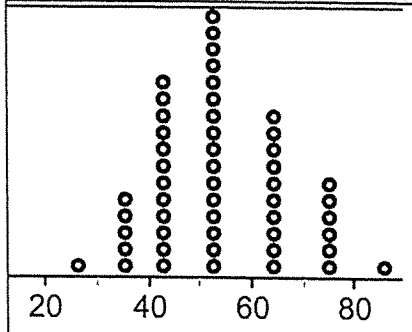
SLOT Quiz Today!

SLOT Week 4: I can describe the shape of data distributions.
I can compare the relationship between the mean, median and mode of a distribution.

Name: _____

Hour: _____

Monday, February 11, 2019

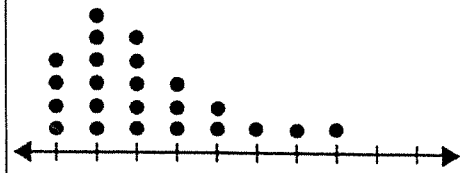


Shape of data distribution:

Another common name:

_____ = _____ = _____

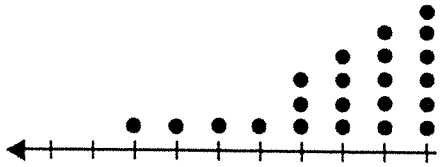
Shape of data distribution:



We call it this because

_____ ≤ _____ < _____

Shape of data distribution:



We call it this because

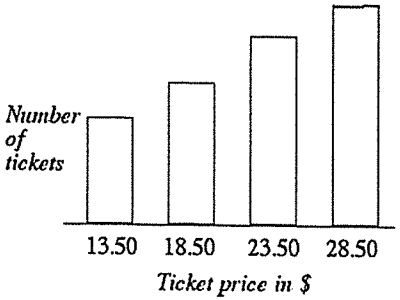
_____ < _____ ≤ _____

SLOT QUIZ ~~FRIDAY~~ Wednesday!

Tuesday, February 12, 2019

i. Determine the shape of each data distribution.
ii. Choose the correct response that describes the relationship between the mean, median and mode of the data distribution.

1) The graph below shows the distribution according to price of tickets sold for Wrestlepalooza IV.

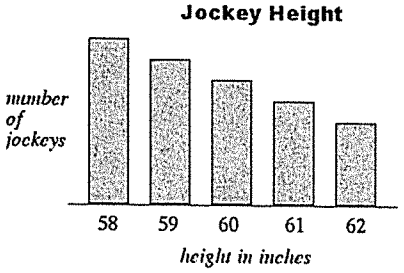


i. Shape of Distribution:

ii. Choose the correct response. Be ready to explain your reasoning.

A. The mean is less than the mode.
B. The median is less than the mean.
C. The mode is the same as the mean.
D. The mean is the same as the median.

2) The graph below shows the distribution according to height of a group of jockeys at a south Florida horse track.



i. Shape of Distribution:

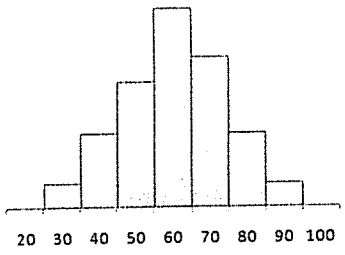
ii. Choose the correct response. Be ready to explain your reasoning.

A. The mean is less than the mode.
B. The mode and the mean are the same.
C. The median is greater than the mode.
D. The median and the mean are the same.

SLOT QUIZ TOMORROW!!!!

Wednesday, February 13, 2019

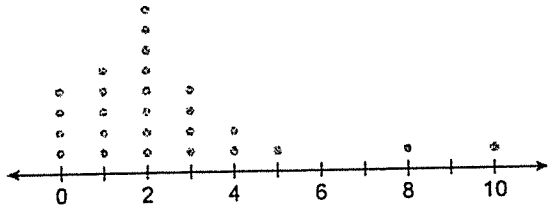
1) The histogram below displays the final grades from the first semester of Algebra 2.



a) Describe the shape of the distribution.

b) Write a statement describing how the mean, median and mode compare with one another.

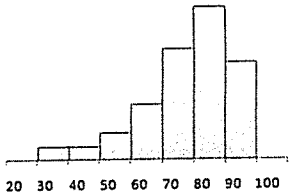
2) The dot plot below displays the number of siblings students in Mr. Rochemont's 3rd hour AP Stats class have.



a) Describe the shape of the distribution.

b) How does the median compare to the mean of this distribution?

3) Use the histogram to fill in the blanks ordering the mean, median and mode of the distribution from smallest to largest.



_____ < _____ ≤ _____

SLOT QUIZ TODAY!

EXTRA PRACTICE PROBLEMS TO GET READY FOR THE SLOT QUIZ

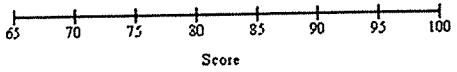
1) The following data is the test scores of 18 students in a class:

70, 70, 70, 70, 70, 70, 74, 74, 74, 74, 74, 77, 77, 77, 82, 82, 86, 100

a) Make a dot plot to represent this data.

b) Describe the shape of the distribution.

c) Compare the mean, median and mode.



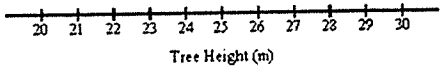
2) The following data represents the heights of different species of trees in a forest, measured in feet.

21, 22, 22, 23, 23, 23, 24, 24, 24, 24, 25, 25, 26, 26, 27

a) Make a dot plot to represent this data.

b) Describe the shape of the distribution.

c) Compare the mean, median, mode.



SLOT: I can interpret stem and leaf plots.
I can describe the shape of a data distribution.
I can compare measures of central tendency.

Name: _____

Hour: _____

Wednesday, February 20, 2019

I can:

Use the stem and leaf plot to answer each question.

1)

Stem	Leaf
0	1 2
1	2 4 6
2	1 5 6 6
3	2 4 8 8 9
4	1 3 5 6 7 7 8
5	2 3 4 5 6 6 9 9 9
6	2 3 4 5 6 6 7
7	2 2 5 5 6
8	1 3 4 7
9	2 3 5

a) What shape is this distribution?

b) What is the largest value in this distribution?

c) Compare the mean and median.

2)

Stem	Leaf
0	1 1 2 4 7 8
1	2 2 3 5 6 6 8 9
2	1 5 6 7 7 8 8 9 9 9
3	2 4 4 5 7 7 8
4	1 3 5 8
5	2 3 7
6	2 3 4
7	2 6
8	3
9	2

a) What shape is this distribution?

b) What is the smallest value in this distribution?

c) Compare the mean and median.

3)

Stem	Leaf
0	1
1	2
2	1 5
3	2 4 8
4	1 3 5
5	2 3 7
6	2 3 4 5 6 6 7 7
7	2 2 5 5 6 7 7 7 8 8 9
8	1 3 4 4 5 6 6 7 7 7
9	2 3 4 5 6 6 7 8

a) What shape is this distribution?

b) How many values are smaller than 53?

c) Compare the mean and median.

SLOT QUIZ FRIDAY!

Thursday, February 21, 2019

I can:

1) The stem and leaf plot below shows the pulse rate of high school track team members immediately after their event.

pulse rate

6	8 8 8 9
7	0 1 1 4 6 6 8
8	2 6 8 8
9	0 6
10	4
11	0

a) What shape is this distribution?

b) Compare the mean and median.

c) How many track team members had a pulse rate greater than 88 bpm?

2) The stem and leaf plot below shows the scores of a segment one driving school class.

Scores on a Test

5	4
6	6 9 9
7	2 5 5 5 5 9
8	1 1 7
9	8

a) What shape is the distribution?

b) Compare the mean and median.

c) How many students scored below 81%?

SLOT QUIZ TOMORROW!

Friday, February 22, 2019

1) The stem and leaf plot below shows displays the ages of people shopping at the grocery store on a Wednesday morning.

1	0
2	3
3	2 6
4	1 1 3
5	2 5 7
6	0 0 2 4 7
7	1 4 4 5 6 7 8 9
8	0 1 1 3 8
9	5 8

a) Describe the shape of the distribution.

b) Compare the mean and median of the distribution.

c) How many people shopping at the grocery store are under the age of 62?

2) The stem and leaf plot below shows the number of movies viewed in January by students in AP Statistics.

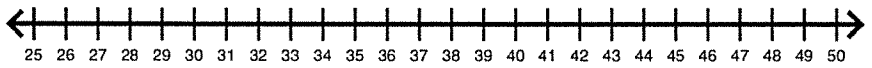
0	0 1 2 2 3 2 6 8 8 9
1	1 1 2 4 4 5 7 7 7
2	2 2 3
3	7 8
4	4

a) Describe the shape of the distribution.

b) Compare the mean and median of the distribution.

c) How many students viewed more than 10 movies in January?

SLOT Quiz TODAY!

Thursday, February 28, 2019	Friday, March 1, 2019
I can:	I can:
DIRECTIONS: Find the five number summary and construct a box and whisker plot for the given data set. Use the box plot to answer the following questions.	**DIRECTIONS: Find the five number summary and construct a box and whisker plot for the given data set. Use the box plot to answer the following questions.**
17, 5, 1, 16, 20, 6, 14, 7, 15, 13, 18, 9, 4	26, 31, 44, 49, 42, 40, 45, 27, 50, 33, 38, 30, 25
Min = Q1 = Med = Q3 = Max =	**Min = Q1 = Med = Q3 = Max =**
	
What percent of data is less than 13?	**What percent of data is greater than 8.5?**
What percent of data is between the values of 5.5 and 13?	**What percent of data is between the values of 2 and 21?**
SLOT QUIZ TOMORROW!	**SLOT QUIZ TODAY!**