

4/21/17 CCM6+

*What are **statistical questions**?*

*Why is **statistics** useful?*

*How do **mean, median, mode and range** help you understand data?*

1. Agenda...HW is page 9
2. Complete Friday warm-up...**use calculator.**

Fri Warm-ups

1.
$$\frac{45 \text{ min}}{2 \text{ doz}} \cdot \frac{.4}{.4} = \frac{180 \text{ min}}{8 \text{ doz}} \rightarrow 3 \text{ hrs}$$

2.
$$\frac{1}{5} \cdot g - 2 \cdot \frac{f}{g}$$

CCM6/CCM6+ Unit 13

Collect, Analyze, and Display Data

2016 – 2017

Name: _____

Math Teacher: _____

Projected Quiz Date: **Wed 4/26 and Mon 5/8**Projected Test Date: **Thurs 5/11**

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Intro to Statistics

What is Statistics?

collecting data & analyze it & make decisions or predictions

Why is it important?

good dec. & pred. improve life 😊

What are statistical questions?

lots of possible answers

The teacher will show you a variety of questions. Determine whether the question is statistical or non-statistical and write the questions under the correct heading.

Statistical		Non-Statistical
B I G	L	C J A
D K H	F	
	E	

Chose one of the statistical questions from the list above and determine how you might find the answer to this question.

What are ways in which you can collect data?

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.



Link to song for these measures.

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The **mean**, the **median**, the **mode**, and the **range** are measures that describe a set of data. This picture will help you learn about each measure.

MEAN (average)
Add all the values, then divide by the total number of values.

Robin Hood

MEDIAN (middle)
The middle value, when the values are arranged in order.

Measures that Describe a Set of Data

MODE (most)
The value that occurs most often in a set of data. There can be one mode, more than one mode, or no mode.

RANGE
The difference between the greatest number and the least number in a set of data.

highest - lowest

Tim's bowling scores for the past 5 games are listed below:

89, 98, 98, 105, 110, 89, 98, 110, 98, 105

Write *mean, median, mode, or range* to answer the following questions about Tim's scores.

- The number 98 indicates which measure? median
- Tim added up all his scores and divided by 5. Which measure did he find? mean
- Tim found that the difference between his highest and lowest score was 21 points.
That measure is called the range
- Tim noticed that he got a score of 98 twice. Which measure is Tim focusing on? mode

Terry's test scores for the past 5 assessments are listed below. Calculate the range, mean, median, and mode.

Terry's Test Scores	76	81	94	81	78
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Range: _____ Mean: _____ Median: _____ Mode: _____

_____ { 6 } _____

5

Measures: Mean, Median, Mode, and Range - Independent Practice Worksheet

Complete all the problems.

1. Find the mean, median, mode, and range of the data set:

8, 6, 7, 5, 6, 2, 5, 9, 9, 4, 5 ^{2, 4, 5, 5, 5, 6, 6, 7, 8, 9, 9}
 mean = 6 median = 6 mode = 5 range = 7
₉₋₂

2. Lewis has the following data:

3, 4, 3, 3
 2, 5, m, 2, 4, 3

If the mean is 3, which number could m be?

(a) 2 (b) 3

3. Some boys compared how many footballs they had:

Farmer	Footballs
Long	
Sanders	
James	
Peterson	
Cole	
Jordon	
Owens	

2



What was the median number of footballs?



4. Find the mean, median, mode, and range of the data set:

4, 17, 17, 4, 27, 29, 20, 24, 34, 4

mean = _____ median = _____ mode = _____ range = _____

5. Allen has the following data:

4, 5, 8, p, 7, 6

If the mean is 6, which number could p be?

(a) 6

(b) 7

6. Find the mean, median, mode, and range of the data set:

22, 24, 26, 20, 29, 28, 26

mean = _____ median = _____ mode = _____ range = _____

7. Some teacher compared how many students were in their class.

Teacher	Number of Students
Mr. Hall	
Mr. Garcia	
Mr. Taylor	
Mr. Moore	
Mr. Wilson	

What was the mode number of students the teacher had?



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HW

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8. Find the mean, median, mode, and range of the data set:

11, 13, 11, 12, 10, 12, 11, 8

mean = _____ median = _____ mode = _____ range = _____

9. Adams has the following data:

2, t, 6, 5, 3

If the mean is 4, which number could t be?

(a) 4

(b) 14

10. Find the mean, median, mode, and range of the data set:

8, 7, 9, 14, 12, 7, 6

mean = _____ median = _____ mode = _____ range = _____

