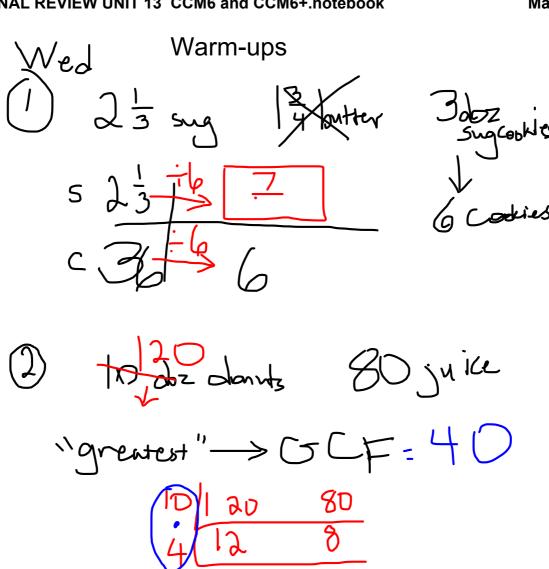
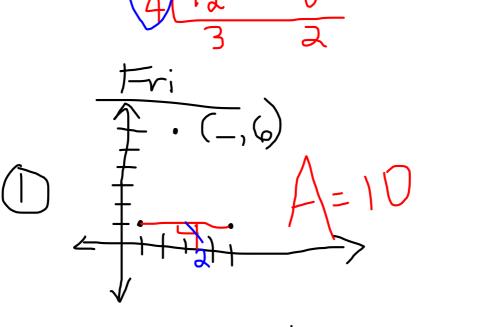
5/10/17 CCM6 and CCM6+ FINAL REVIEW of Unit 13 (test tomorrow).

- 1. Agenda...HW is study for test...EOG RP due Monday 5/15.
- 2. Get out study guide pages 57-59 to check and a calculator.
- 3. Do Wed warm-ups. Use calculator.





$$2 \left(\frac{2}{3}\right)^{3} = \frac{2}{3} \cdot \frac{2}{3} \cdot \frac{2}{3} = \frac{8}{27}$$



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Unit 13 STUDY GUIDE

Analyze a set of data (Show all work if necessary):

1. # of slices of pizza eaten by a 16-year old boy in one sitting: 7, 5, 6, 7, 5, 5, 8, 15

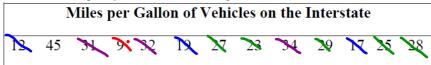
Median = 6.

Do you think there's an outlier?

Mode = 5 Range = 15-5 = 1015 $f_{data} = Median b/c outlier$ Which measure of "center" is best for this set of data?

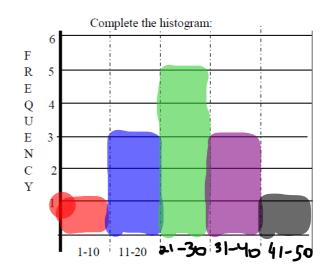
Use the data in the table to make a frequency table with intervals.

Then use the frequency table to make a histogram.



Complete the frequency table:

Miles per Gallon of Vehicles on I-95		
Miles per Gallon	Frequency	
1-10		
11-20	3	
21-30	5	
31-40	3	
41-50		



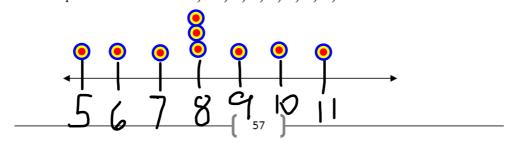
3. Describe the shape of the data in the histogram.

symmetrical, peak at 21-30

21-30

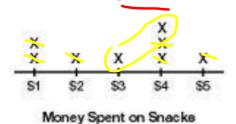
4. Based on the shape of the data, which interval has the median and mean?

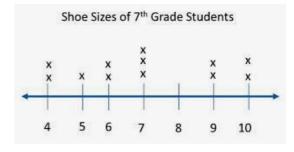
5. Create a line plot for this set of data: **8**, **11**, **5**, **8**, **9**, **6**, **8**, **7**, **10**





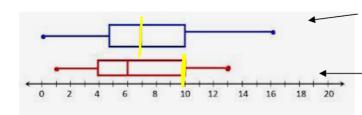
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- 6. From the \$ Spent on Snacks line plot above:
 - a) Find the range: _______
 - Find the median: 3.5
- 7. From the Shoe Sizes line plot above:
 - a) Find the mean:
 - b) Find the mode:

Answer questions 8-10 using the box-and-whisker plots below.

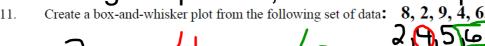


The top box plot shows # of pencils in students' backpacks.

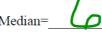
pens in students' backpacks.

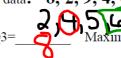
- What percent of students had more than 7 pencils in their backpacks? 50%
- What percent of students had less than 10 pens in their backpacks? 75%
- 10. What do the box-and-whisker plots tell you about students carrying around pens and pencils in their backpacks? Interpret the data on the graphs.

wider range of pencils, overall more pencils

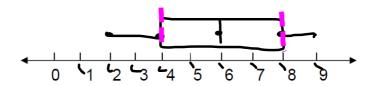












What is the interquartile range (IQR) of this set of data? $\boxed{9-4}$ 12.





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13. Student heights in inches: 65, 62, 59, 60, 64, 70
Find the mean absolute deviation of student heights.
Fill in the table below to find it: Mean height = M. A. D. =

DATA	DIFFERENCE from MEAN	Absolute Value	
65	65-6333	1.67	
62	62-63.33	1.33	<u>ij</u>
59	59 - 63.33	4.33	
60	60-63.33	3.33	I tl
64	64-6333	٥.٤٦	- d
70	70-6333	ر6.0	tl to

(Round to the nearest hundredth f necessary)

If a data set has an outlier, the MAD will be

data set with data values that are all very close together.



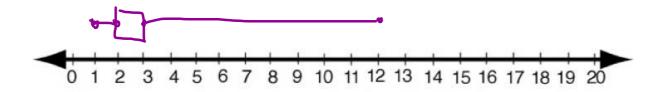
more spread out from mean=higher MAD

What do YOU want to review?

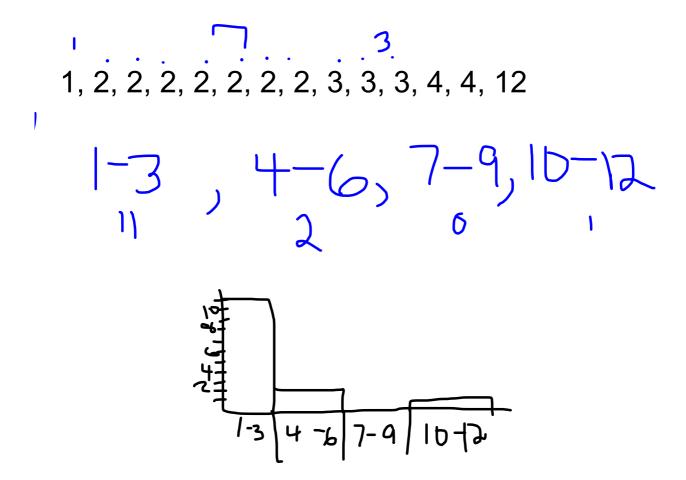
Make a box-plot

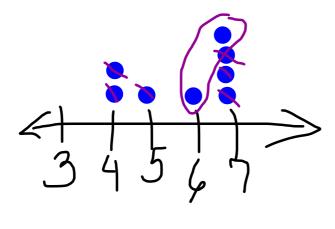


Number Line

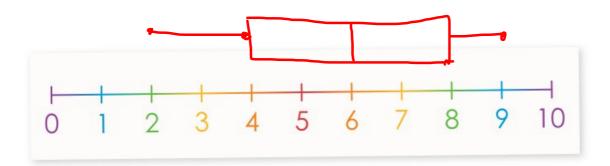


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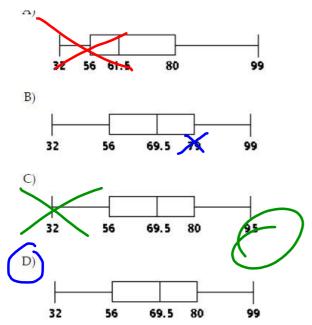




median =
$$\frac{47}{8}$$
 = 5.9
Median = 6.5
Mode = 7
range = $7-4-3$



- A) 2, **5**, 6, **6**, 8, 8, 9
- C) $2, \frac{4}{6}, 8, 9, 9$
- 1, 4, 5, 6, 8, 8, 9
- D) 2, 4, 5, 6, 7, 8, 9



Which boxplot matches?