

4/21/17 CCM6+7+

Check the study guide and review all main ideas of unit 12.

1. Agenda...HW is study for TEST MONDAY!
2. Get out study guide to check and calculator
3. Do Friday warm-ups...I think you can without a calculator...the math is easy

Friday warm-ups

$$\textcircled{1} \quad \frac{45m}{2d} = \frac{180m}{8d} \rightarrow 3 \text{ hours}$$

Handwritten annotations in red: a box around $180m$, arrows pointing from $45m$ and $180m$ to 4 above the fraction bar, and an arrow pointing from $2d$ and $8d$ to 4 below the fraction bar.

$$\textcircled{2} \quad \frac{1}{5} \cdot g - 2 \cdot \frac{1}{9} f$$

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Unit 12 Test Review

1. Fill in the table to the right using the back-to-back stem and leaf plot below.

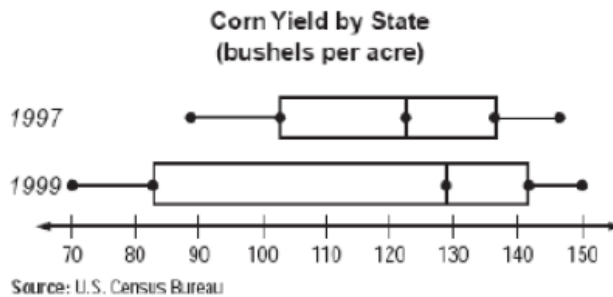
Mr. Jones	Miss Murray
5 5 5 4 2 1 0	9 2 3 7 7 9
8 8 7 3 2	8 4 6 8 -
9 9 6 4	7 0 1 1 6
1	6 3 4 5 5 5 6
9 7 5	5 0 8

5|0 = 50

	Mr. Jones	Miss Murray
Mean	81	76
Median	85	71
Mode	95	65
Range	40	49

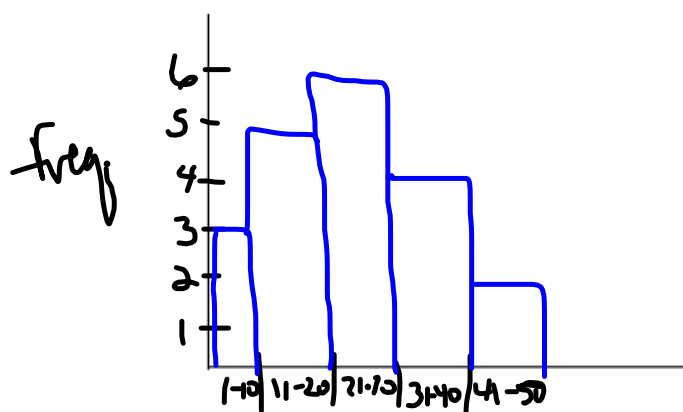
2. Which statement do you know to be true, based on the box and whisker plots below?

- A. More states were surveyed in 1999 than in 1997.
- B. The data from 1999 on corn yield was more varied than in 1997.
- C. The mean amount of bushels of corn was greater in 1999 than in 1997.
- D. The median of corn yield in 1999 was just above 140.



3. Construct a histogram from the following data:

Ages of People Attending Conference		
Ages of Attendees	Frequency	Cumulative Freq.
1-10	3	3
11-20	5	8
21-30	6	14
31-40	4	18
41-50	2	20



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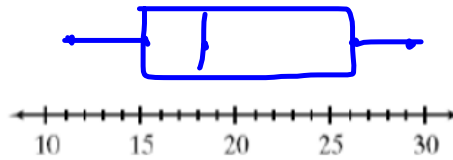
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4. Calculate the 5 number summary and Interquartile Range for the following data set:

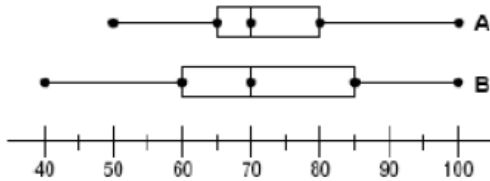
16 20 30 15 23 11 15 21 30 29 13 16

11, 13, 15, 15, 16, 16, 18, 20, 21, 23, 26, 30, 30

- a. Minimum (Lower Extreme) 11
- b. Lower Quartile 15
- c. Median 18
- d. Upper Quartile 26
- e. Maximum (Upper Extreme) 30
- f. IQR 11
- g. Create a box and whisker plot

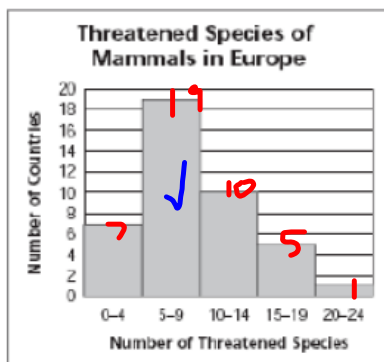


5. Use the following double box and whisker plot about test scores in Mr. Smith's Class A and Class B to answer the questions. Each class has 28 students in it.



- a. What percentage of Class A scored higher than a 70? 50%
- b. What percentage of Class B scored lower than a 60? 25%
- c. HOW MANY people in Class A scored higher than a 65? 21
- d. HOW MANY people in Class B scored lower than a 70? 14

6. Answer the following questions using the histogram below.



Source: www.rndlist.org

- a. How many counties had at least 10 threatened species? 16
- b. In which interval does the median fall? 5-9
- c. What percentage of the countries had 10-14 threatened species? $\frac{10}{42} = 23.8\%$
- d. True or False: You can determine the greatest number of threatened species in one country from the histogram.

No (intervals)

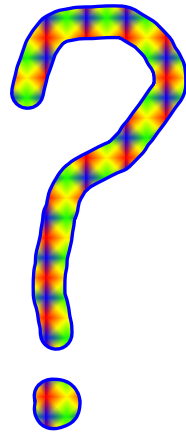
*Graphical representations collected from multiple resources (including Glencoe practice).

6, 7, 4, 7, 9, 7

$$\begin{aligned}\bar{x} &= 6.6 \\ \text{med} &= 7 \\ \text{mode} &= 7 \\ \text{range} &= 5\end{aligned}$$

$$\text{IQR} = 1$$

WHAT ELSE do **YOU** want to **REVIEW**?



S K U N K