

4/27/17 CCM6 and CCM6+

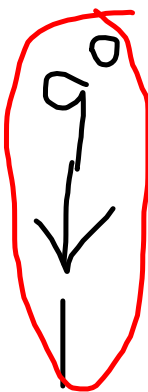
Create sets of data with a given measure.

1. Agenda...HW is finish pages 28-31
2. Get out page 22 to check
3. You need a calculator. Do warm-up Thurs.

No Calculators

Warm-up Thursday

①



or $\left(\frac{1}{9}\right)^2$
 $\frac{1}{9} \cdot \frac{1}{9} = \frac{1}{81}$

②

$$\begin{array}{r} 12 \\ 276 \\ 179 \\ 212 \\ + 103 \\ \hline 770 \end{array}$$

avg

\$192.50

$$\begin{array}{r} 192.5 \\ 4 \overline{) 770.0} \\ \underline{-4} \downarrow \\ 37 \\ \underline{-36} \downarrow \\ 10 \\ \underline{-8} \downarrow \\ 20 \\ \underline{-20} \downarrow \\ 0 \end{array}$$

Top

$$\frac{\quad}{40} = \frac{\square}{100}$$

$$40x = 200$$

Bottom

$$\frac{200}{\quad} = \frac{\square}{100}$$

$\div 2 \rightarrow$

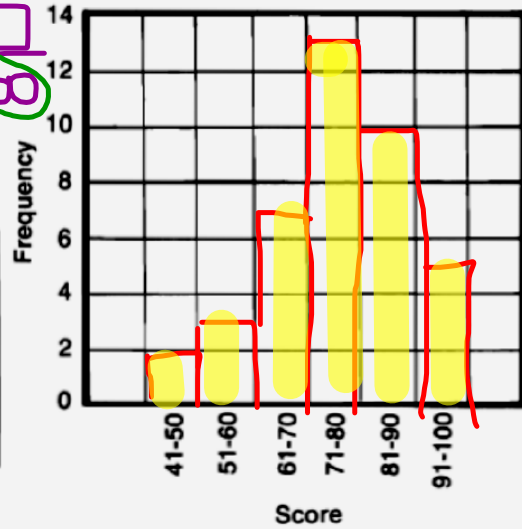
✓HW

What Happens When Joggers Get Mad?

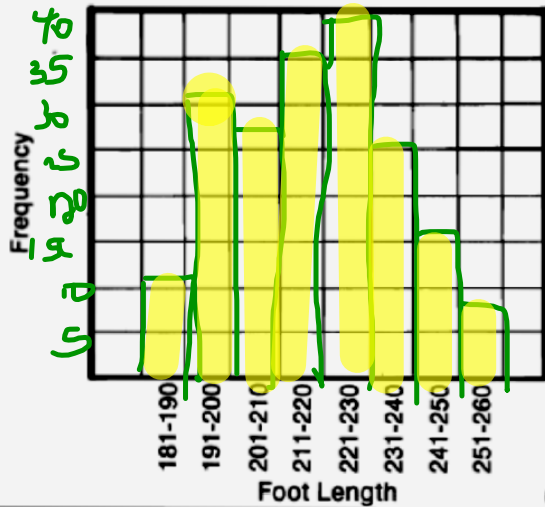
Complete each table. Write the letter of each table value in the box above the corresponding value at the bottom of the page. Make a histogram for each set of data.

Test Scores							
75	51	49	94	61	75	83	55
86	84	97	68	85	63	88	82
92	73	72	82	43	54	66	76
79	63	77	71	67	73	78	71
84	98	77	73	67	89	94	88

Score	Tally	Frequency	Percent
41-50		(P)	(I)
51-60		(A)	(Y)
61-70		(I)	(E)
71-80		(E)	(A)
81-90		(T)	(H)
91-100		(A)	(V)



Student Foot Lengths (mm)		
Length	Frequency	Percent
181-190	12	(L)
191-200	32	(T)
201-210	28	(Y)
211-220	36	(C)
221-230	40	(H)
231-240	26	(S)
241-250	17	(H)
251-260	9	(F)



10	25%	13	14%	20%	5	12.5%	17.5%	3	2	8.5%	7.5%	13%	7	18%	32.5%	6%	4.5%	5%	16%
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"they have a physical fit"

A group of students made the table below.

Household Size	
NAME	# of People
Reggie	6
Tara	4
Brendan	4
Felix	4
Hector	3
Tonisha	4

A. Make stacks of cubes to show the size of each household.

1. How many people are in the six households altogether? Explain

24

2. What is the mean number of people per household? Explain.

4

~~3. How does the mean here compare to the mean for the data on p. 30?~~

~~B. What are other ways to determine the mean of a set of data other than using cubes?~~

C. Make a set of 6 data values that have a mean of 8

8 10 6 9 7 8

total = 48
0, 0, 0, 0, 0, 48

D. Make a set of 5 data values that have a median of 8

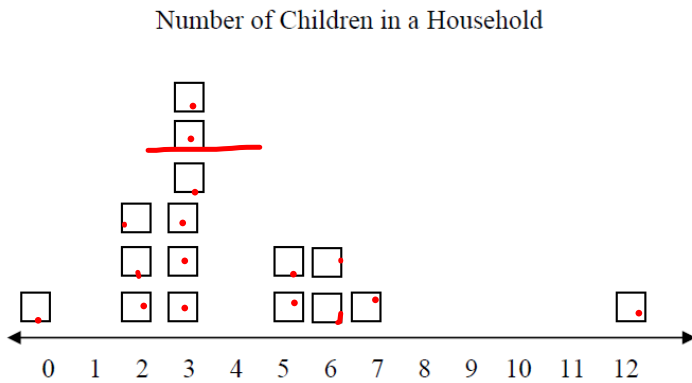
≤ 8 4 7 8 8 10 ≥ 8

E. Make a set of 5 data with a range of 6, a mean of 6, and a median of 6

4 4 6 6 10

total = 30
10 left

For questions 1 and 2, use the line plot below.



1. a. What is the median number of children for the 16 households? Explain how to find the median. What does the median tell you?

3

b. Do any of the 16 households have the median number of children? Explain.

3 is mode

2. a. What is the mean number of children per household for the 16 households? Explain how to find the mean. What does the mean tell you?

$$\frac{65}{16} = 4.1$$

b. Do any of the 16 households have the mean number of children? Explain.

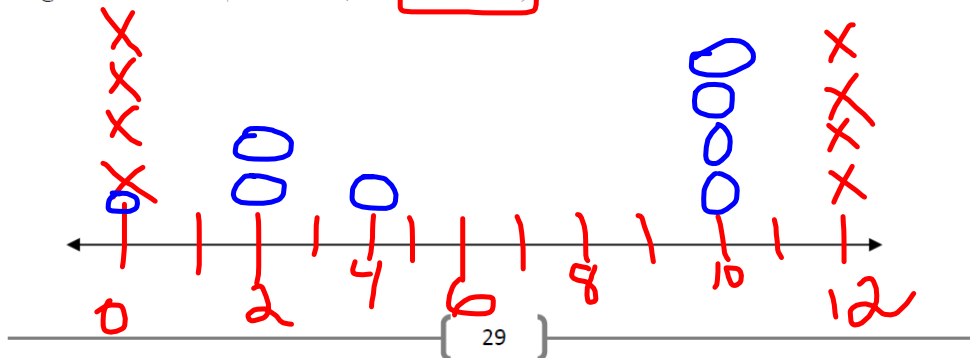
no - what is a 0.1 kid???

For exercises 3&4, the mean number of people per household for eight households is 6 people.

3. What is the total number of people in the eight households?

- a) 11 b) 16 c) 48 d) 64

4. a. Make a line plot showing one possible arrangement for the numbers of people in the eight households. (Remember, the MEAN is 6.)



finish for HW

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- b. Make a line plot showing a different possible arrangement for the numbers of people in the eight households. (Remember, the MEAN is 6.)



- c. Are the medians the same for the two arrangements you made?

5. The students in Mr. Wilson's study hall spent the following amounts of time on their HW.

$\frac{3}{4}$ hour $2\frac{1}{2}$ hour $1\frac{1}{4}$ hours $\frac{3}{4}$ hour $2\frac{1}{2}$ hour = $1\frac{1}{5}$

What is the mean time his students spent on HW?

$\frac{15}{4} \div 5 = \frac{3}{4}$

6. Use the data from question 5. What is the median time Mr. Wilson's students spent on HW?

- a) $\frac{1}{2}$ hour b) $\frac{3}{4}$ hour c) 1 hour d) $1\frac{1}{4}$ hours

7. Six students each had a different number of pens. They put them all together and then distributed them so that each student had the same number of pens.

- a. Choose any of the following that could be the number of pens they had altogether. Explain your reasoning.

- A. 12 B. 18 C. 46 D. 48

- b. Use your response from part a. How many pens did each person have after the pens were distributed evenly?

- c. Your classmate says that finding the mean number of pens per person is the same as finding the number of pens each person had after the pens were distributed evenly. Do you agree or disagree? Explain.

HW

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~~Box Plot (Box-and-whisker Plots)~~

WARMUP:

1. Create a set of data with 5 data values that have a median of 4.

2. Create another set of data with 5 data values that have a median of 4.

3. Do you use any “tricks” to help with these questions?

4. Create a set of data with 6 data values that have a mean of 5.

5. Create another set of data with 6 data values that have a mean of 5.

6. A trick in creating a set of data with the same mean is: