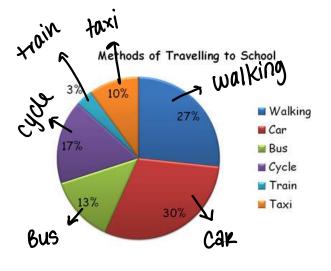


3. The pie chart below represents the various methods of transportation that CPS students use to get to school. Determine the following from the pie chart:



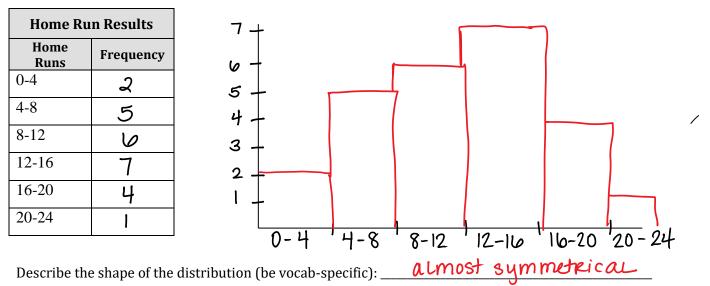
1. If there were 100 students, how many students would you expect to arrive at school by bus?

13

2. If there were 150 students polled, how many students would you expect get to school by <u>walking or taking the train</u>?

3. *True or False:* This data could have been represented by a histogram.

False histogram -> only numerical 4. The number of home runs by the batters in a local home run derby are listed below. Create a frequency table and histogram (with a title and labeled axes) that represents the data.



5. The following data represents Precalculus scores on this semester's final exams amongst two classes. Create a double stem-and-leaf plot to model the data below. Don't forget to create a key!

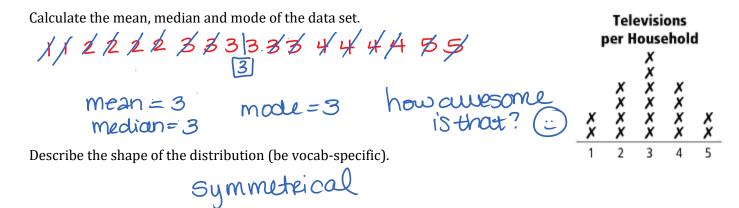
<u>Period 1</u> : 75 , 8	1, 95, 88, 82	$(, 83, 68, 81, 90, 71 \longrightarrow \text{mean} = 81.4)$
<u>Period 3</u> : 64, 7	X, 73, 98, 85	$(, 75, 82, 88, 96, 78 \longrightarrow \text{mean} = 80.1)$
Period		Period 3
8	6	4
51	7	0035
83211	8	258
50	9	68

Which class had a stronger performance on the final exam? Prove it with measures of central tendency.

.

Period 1 had a higher mean

6. The results of a survey on the number of televisions in students' households are shown in the dot plot below.

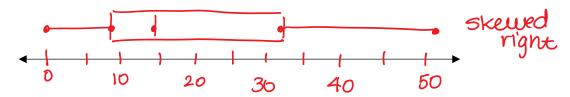


7. The number of times a group of students went to the local pool last summer is listed below. Find the 5number summary and create a box-and-whisker plot to represent the data.



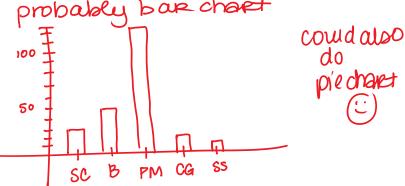
Are there any outliers? Justify your answer with numerical evidence. NO OUTLICKS 2/3 3/3 4/3 1/1 1/1 1/2 2/3 3/3 3/5 4/3 3/1 1/4 1/2 1/2 3/3 3/5 4/3 3/1 1/4 1/2 1/2 3/3 3/5 4/3 3/1 1/4 1/4 1/2 1/2 3/3 3/5 4/3 3/1 1/4 1/4 1/2 3/3 3/5 4/3 3/1 1/4 1/4 1/2 3/3 3/5 4/3 3/1 1/4 1/4 1/2 3/3 3/5 4/3 3/1 1/4 1/4 1/2 3/3 3/5 4/3 3/1 1/4 1/4 1/2 3/3 3/5 4/3 3/1 1/4 1/2 3/3 3/5 4/3 3/11/4 1/4 1/2 3/3 3/5 4/3 3/1 1/4 1/4 1/2 3/3 3/5 4/3 3/3 3/5 4/3 3/3 3/5 4/3 3/3 3/5 4/3 3/

Minimum	Q1	Median	Q3	Maximum
0	8	14.5	83	51



8. Create a reasonable display for the following data. Then, provide a backup display (describe it only ... you do not have to create a second display).

Activity	Frequency		
Summer Camp	30		
Babysitting	50		
Pool Membership	130		
Cutting Grass	25		
Summer School	10		



9. Complete the frequency table based on the given information. Then, create a relative frequency table and to answer the questions below.

Transport JOB	Walk	Car	Bus	Bike	Total
Male	34	28	5	52	129
Female	46	17	12	17	92
Total	80	45	27	69	221

Transport JOB	Walk	Car	Bus	Bike	Total
Male	.154	1267	.618	.235	.58371
Female	.208	.769	.543	.769	410
Total	.3619	.2036	.122	.312	

a. What percentage of the survey took the bus?

12.270

b. What percentage of the survey were males who rode their bikes?

23.5%

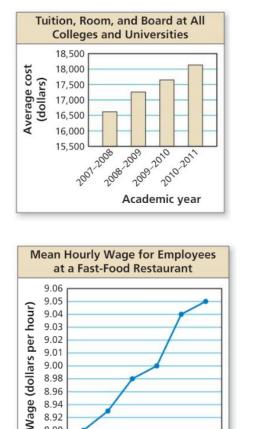
c. What percentage of the girls walked?

50%

d. What percent of the boys rode their bikes?

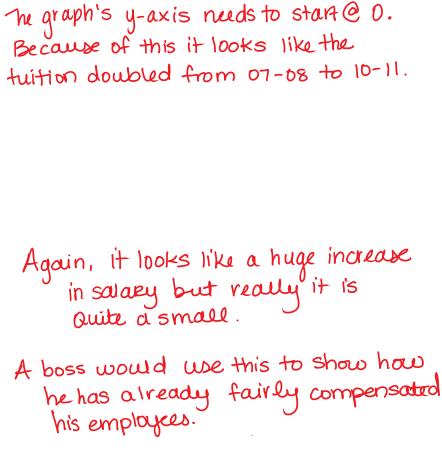
40.3%

10. Describe how each graph is misleading. Then, explain how someone might misinterpret the graph. Who might the misleading graph benefit?



2008 2009 2010 2011 2012 2013 Year

8.94 8.92 8.90 0



11. The double box-and-whisker plot below represents the amount of time (in minutes) students spend per night completing homework and/or watching TV.

