

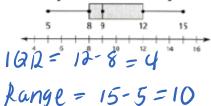
5. Algebra 1: Statistics

Assignment

MRS. W 1250N 4



1) What is the interquartile range and range of the data represented on the plot below?



2) How many females do not grocery shop?

	at least Once a Week?			
Gender	Yes	No	Total	
Male	78	11	89	
Female	54	27	81	
Total	132	38	170	

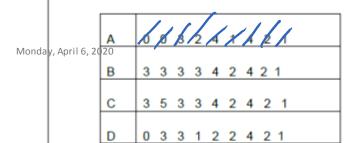
3) What is the outlier of the following set of data?

65

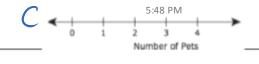
 The following table shows data on the number of pet students have from four classes.



Use the dot plots below to determine which data set is not Normally Distributed.









5) What is the conditional relative frequency that a student's favorite sport is not soccer, given that the student is a boy?

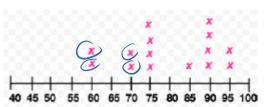
	Prefer Soccer	Do not Prefer Soccer	Total
Boys	28	(22)	50
Girls	17	33	50
Total	45	55	100

A	22% of all boys do not prefer soccer.
В	30% of all boys do not prefer soccer.
C	44% of all boys do not prefer soccer.
D	25.5% of all boys do not prefer soccer.

22 ×10=44 %

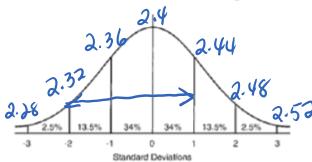
6) What is the mean, median and mode of the data set? {-6, -5, 4, 7, 9, 8, 10, 11, 7}?

The dot plot below to answer the question below.
Ralph's test scores

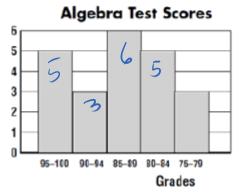


How many times did Ralph earn a score of 70 or less?

 The masses (in grams) of pennies are Normally Distributed with a mean of 2.40 g and a standard deviation of 0.04 g.



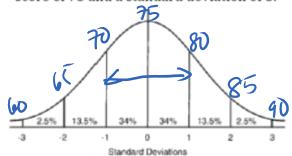
9) Refer to the histogram below.



How many students received a score of 80 or better?

Find the probability that a penny chosen at random has a mass of 2.32g and 2.44g?

 A large group of students took a test in Physics and the final grades have a mean score of 75 and a standard deviation of 5.



If we can approximate the distribution of these grades by a normal distribution, what percent of the students scored between 70 and 80?

