## 5. Algebra 1: Statistics Study Guide 1) What is the interquartile range and range of 2) How many females do not grocery shop the data represented on the plot below? Do you Shop for Groceries at least Once a Week? Gender No Male 11 IOR= 31d-181 = 8-5 = 3 91 Female 54 Runge = Max-min = 10-2=8 Total 132 48 180 3) What is the outlier of the following set of data? -6, 1, 6, -5, 0, -35, -2? - 35 4) 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 Normally Distributed. BCD DO 3 5 3 5 4 2 5 2 1 Number of Pets Monday, April 6, 2020 3 5 3 3 4 2 4 2 1 D 1 5 3 1 4 2 4 2 1 5) What is the conditional relative frequency that a student's favorite sport is not soccer, given that the student is a boy? 13% of all boys do not prefer soccer. Do not Prefer 30% of all boys do not prefer soccer. Prefer Total Soccer Soccer 27.5% of all boys do not prefer soccer. 12 Boys 28 25.5% of all boys do not prefer soccer. 12/40 × 100 = 30 % 50 Girls 19 31 43

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90

Total

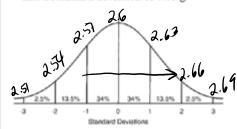
6) What is the mean, median and mode of the data set? {-6, -5, -4, 7, 9, 9, 10, 11, 14}?

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



How many students earned a score of 90 or better?

 The masses (in grams) of pennies are Normally Distributed with a mean of 2.60 g and a standard deviation of 0.03 g.



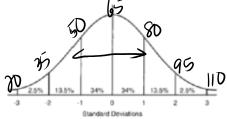
9) Refer to the histogram below.



How many number of board of directors are 60 years or older?

Find the probability that a penny chosen at random has a mass of 2.57g and 2.66g?

 A large group of students took a test in Physics and the final grades have a mean score of 65 and a standard deviation of 15.



If we can approximate the distribution of these grades by a normal distribution, what percent of the students scored between 50 and 80?