Statistic Worksheet Name_____Date_____Period_____

1) Draw a dot plot for the data set: Hit in a Round of Hacky Sack: 2, 3, 4, 5, 5, 5, 5, 6, 6, 7, 7, 7, 7, 8, 13

2) Draw a stem-and-leaf plot for the data set: Test scores of test: 76, 80, 84, 56, 65, 73, 83, 80, 93, 92, 60, 57, 66

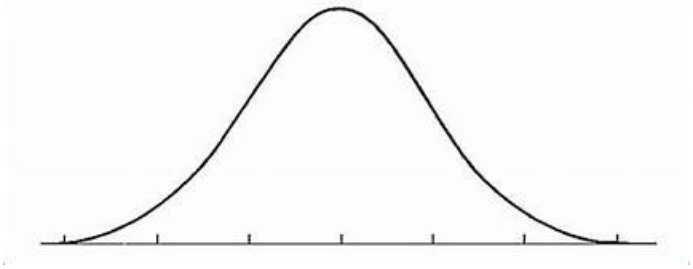
3) Draw a box-and-whisker plot for the data set: 23, 10, 13, 30, 26, 8, 25, 18, 24, 18, 20, 35, 14

4) Draw a box-and-whisker plot for the data set: 35, 60 20, 80, 95, 15, 40, 85, 75

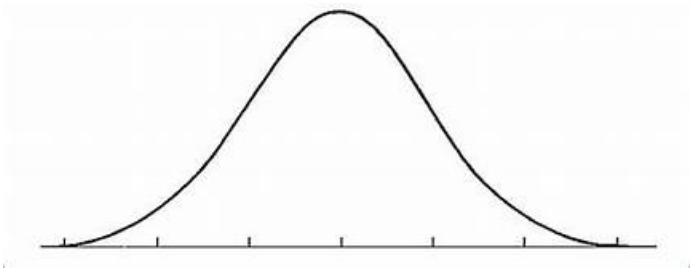
5) Make a frequency table by using the data: Distance in miles to work: 11, 21, 14, 39, 1, 18, 37, 24, 2, 93, 12, 20, 10, 6, 41, 7, 52, 30

6) Draw a histogram for the data set: 40, 44, 47, 55, 60, 60, 60, 65, 80, 90, 90, 95, 100, 120, 120

7) ACT mathematics scores for a particular year are normally distributed with a mean of 27 and a standard deviation of 2 points. Make a bell curve to answer the following questions.
a) What is the probability that a randomly selected score is greater than 29 points?
b) What percentage of students scores are between 31 and 23?
c) A student who scores a 31 is in the which percentile?



8) Mr. Barnett's test is normally distributed with a mean of 65 and standard deviation of 5 points. Use the bell curve to answer the following questions.
a) What is the probability that a randomly selected score is greater than 75 points?
b) What percentage of students scores are between 60 and 70?
c) A student who scores an 80 is in which percentile?



9) The number of a beats per minute that a hummingbird's wings flap is normally distributed with a mean of 145 and a standard deviation of 2.
a) What is the probability that a randomly selected hummingbird's flaps its wings greater that 151 times minute?
b) What percentage of hummingbirds flap their wings between 141 and 149?
c) A hummingbird that flaps its wings 147 times a minute is in the which percentile?