

Names: _____

1. 20,000 ducks were surveyed and asked how many miles they swam over the course of the month of June. The average was 800 miles and the standard deviation was 15 miles.

(a) Draw a normal curve, with percentages, the median and the standard deviations marked on it for this data.

(b) How many of the ducks swam somewhere between 800 and 815 miles in June?

(c) How many ducks swam fewer than 845 miles but greater than 785 miles in June?

2. You have the following set of data for a thing: 3,4,5,6,6,7,7,8,9,10,10,11,11,11,11,14,15,17,19,20. Answer the following questions about this data:

(a) What is the range of this data?

(b) What is the mode?

(c) What are the 3 quartiles, Q1, Q2 and Q3?

(d) What are the lower extreme and the upper extreme?

(e) Draw a box-and-whisker plot for this data.

(f) Compute the variation and the standard deviation.