

Show all work. Your answers must be fully justified.

1. Classify each of the following variables as discrete or continuous.

The volume of water in a lake                      Discrete    Continuous

The number of fish in a lake                      Discrete    Continuous

2. Given the following data set:

4, 5, 9

Find

(a) the mean.

(b) the variance.

3. Given the following data set:

7, 10, 11, 12, 13, 13, 15, 17, 21, 22, 24, 27, 30, 31, 34, 34, 34, 36

(a) Find the 5-number summary for the data set.

(b) Construct a box-and-whisker plot for the data set.