Graphing it! Answers

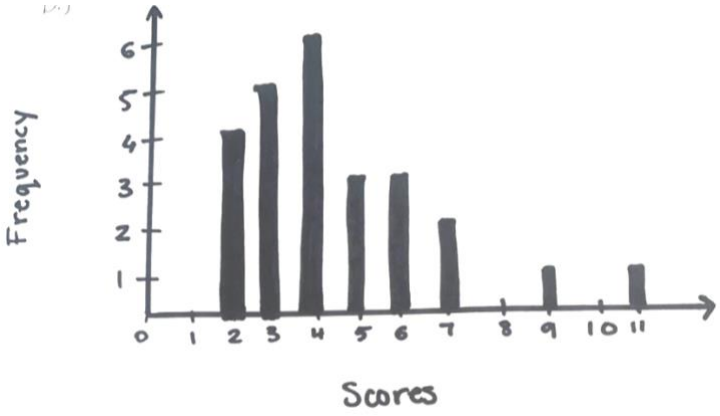
1. Use a stem and leaf plot to organize the following scores:

43, 56, 35, 47, 48, 52, 66, 57, 46,
39, 43, 47, 61, 55, 50, 49, 39, 40

3	5 9 9
4	0 3 3 6 7 7 8 9
5	0 2 5 6 7
6	1 6

2. Sketch a histogram for the following data:

2, 6, 3, 7, 11, 3, 4, 2, 5,
7, 4, 2, 5, 6, 2, 3, 4, 9,
4, 5, 3, 4, 6, 4, 3



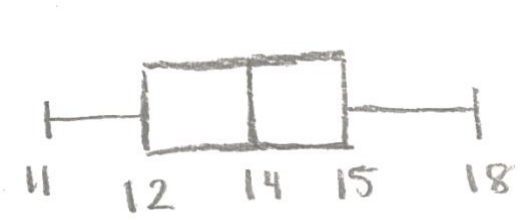
3. Construct a box plot for the following data set by finding the 5 number summary, the IQR, and the outliers/outlier boundaries (if they exist). The data is provided below:

12, 14, 14, 12, 16, 13, 11, 14, 18

Step 1: Reorder

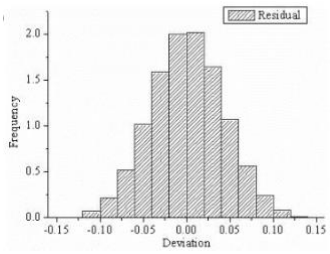
11 12 12 13 14 14 14 16 18

Min = 11
Q_1 = 12
Median = 14
Q_3 = 15
Max = 18



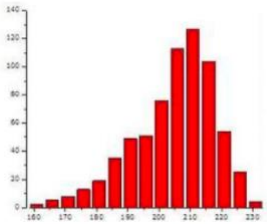
4. Describe the shape of each graph as uniform, skewed, or symmetric. Explain your reasoning.

a)



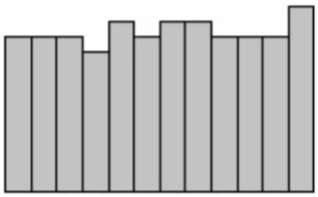
symmetric - both sides are the same

b)



skewed left – peak is on the right of the distribution

c)



uniform – all values equally likely