

I) The following are the years of the quarters collected.

94 96

a) transfer this data into a stem plot where the stems are 7,7,8,8,9, and 9.

97 98

99 97

96 96

96 83

85 95

89 78

97 88

75 79

92 95

96 90

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

b) Find the five number summary.

The median is 95

The first Quartile is,  $Q_1 = 88$

The second Quartile is  $Q_2 = 96$

Hence the 5-number summary is given by : 75 88 95 96 99

c) Which do you think better represents this data set, the mean and standard deviation or the 5 number summary.

The five number summary is resistant, and so it will be more representative of this data, since our data is skewed to the left.

II) Here is the distribution of the top colors for vehicles in 2013. No car was considered to fall into two color categories.

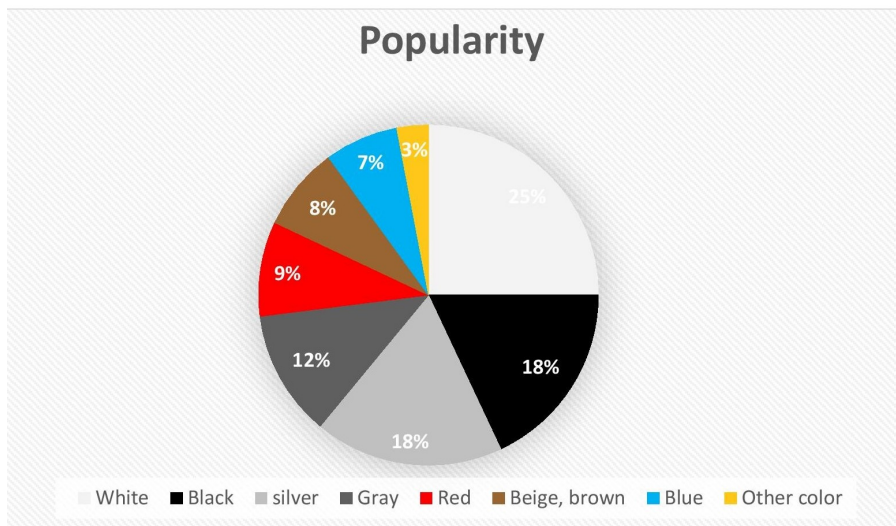
Color	Popularity
White	25.00%
Black	18.00%
Silver	18.00%
Gray	12.00%
Red	9.00%
Beige,brown	8.00%
Blue	7.00%
Other Colors	

The missing percentage is 3%

Draw an appropriate graph to represent this data. Don't forget to calculate the missing percentage first. (write down the name of the graph you chosen to use)

A bar graph or a pie chart is appropriate to represent this data.

This is a Pie chart:



This is a bar chart:

