4.1 Describing Data

Corrective Assignment 4.1

The following data represents the temperature at 4 towns in Mathechusettes when lightning struck.

Numbersville	Realtown	Linesville	Maths Meadow
95 97 88 86 92 94	66 68 75 77 66 74	58 55 58 57 54	86 72 73 78 81 80

1. Find the following values, rounding to the nearest tenth when necessary:

Numbersville	**Realtown**	**Linesville**	**Maths Meadow**
Mean:	Mean:	Mean:	Mean:
Median:	Median:	Median:	Median:
Range:	Range:	Range:	Range:
Standard Deviation:	Standard Deviation:	Standard Deviation:	Standard Deviation:

a. Which town has the greatest range of temperature?

b. What town has the least variation in temperature? Justify by talking about the standard deviation.

2. **Find the value of x.**

a. 20, ***x***, 77, 11, 43 ; The median is 43.

b. 60, 75, 120, ***x*** ; The median is 75.5

c. 13, ***x***, 19, 20, 18, 17. The mean is 17.

d. 37, 46, ***x***, 63, 88 ; The mean is 50.

e. 12, 19, 20, 24, ***x*** . The mean is 22.

f. 30, 90, 60, 50, 120, ***x*** ; The median is 65

A1CC 4.2 Corrective Assignment

1. Fill in each blank with ***always***, ***sometimes***, or ***never*** to make a true statement.

   a. An outlier and the mean of a set are _____ equal.

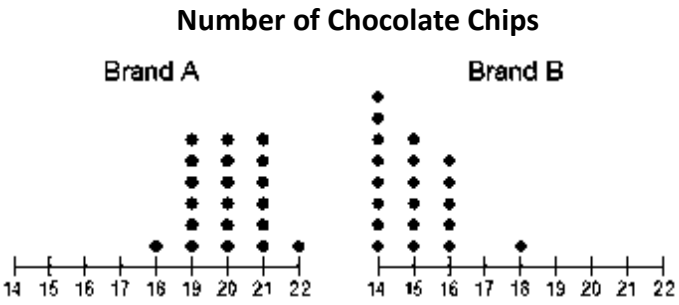
   b. The median is _____ the maximum value in a data set.

   c. If a distribution is skewed left, the median will _____ be greater than the mean.

   d. If you add two outliers to a data set, the standard deviation will _____ change.

   e. If you add a number to a data set, the median will _____ change.

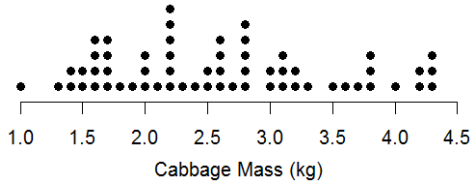
2. Use the dotplots to fill in the table.



Number of Chocolate Chips	Brand A	Brand B
Mean		
Median		
Standard Deviation		

Estimate the mean and median of the distribution. Then, tell whether the distribution is skewed left, skewed right, or symmetric.

3.



4.

Stemplot of students weights

Stem	Leaf
4	9
5	2666
6	77
7	239
8	12779
9	1
10	3

5.

Test scores -- 3rd Grade

5	0
6	4
7	58
8	00011122344566788
9	6789

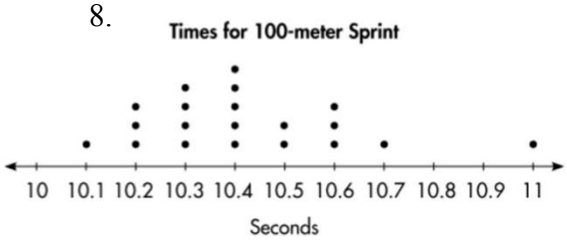
6. **Price of Socks (pair)**

Mean = $3.80
Median = $4.00
Standard Deviation = 2.8

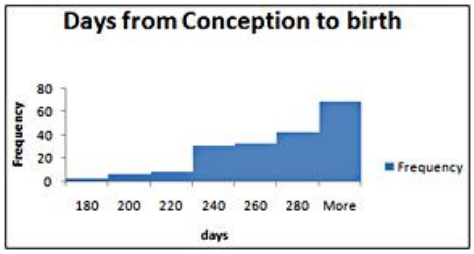
7. **Cost of Ride**

Median = $25.6
Mean = $20.2
Standard Deviation = 5.6

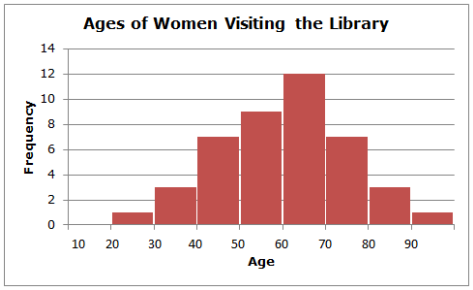
8.



9.



10.



11.

TEST SCORES

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

KEY
5|2 = 52