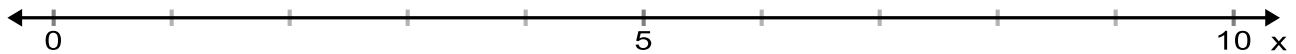Name:_____ Period:_____ Score:_____

Secondary 1 Chapter 8 Review Sheet (No Graphing Calculator Needed)

The number of years the Utah Jazz players have been in the NBA (as of 2015 season) is listed below, as well as a five Number Summary of the data. Use the information to answer the following questions about the data set.

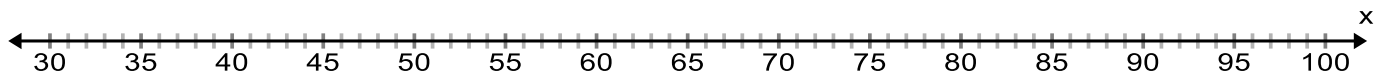4   1   3   1   4   0   4   1   4   0   0   3   0   8   4

1. Draw a Box and Whisker plot of the data. Remember to label.

```
|<----+----+----+----+----+----+----+----+----+----+---->
      0                        5                       10  x
```

The number of DVDs rented at Redbox each day was recorded for two weeks. The data set as well as a Five Number Summary is listed below. Use the information to answer the following questions.

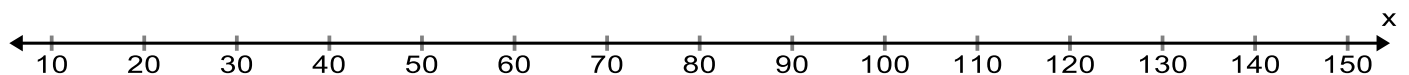58, 42, 50, 65, 72, 61, 78, 60, 34, 71, 71, 63, 67, 94

2. Draw a Box and Whisker plot of the data.

```
                                                                    x
|<--+---+---+---+---+---+---+---+---+---+---+---+---+---+--->
   30  35  40  45  50  55  60  65  70  75  80  85  90  95  100
```

The prices of watches sold at a store, measured in dollars is given below as well as the Five Number Summary. Use the information to answer the following questions about the data set.
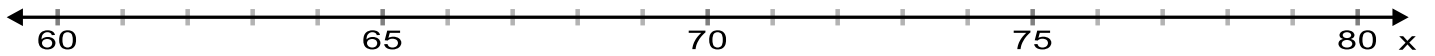
16, 22, 31, 36, 44, 45, 65, 68, 71, 100, 149

3. Draw a Box and Whisker plot of the original data. Remember to label.

```
                                                                    x
|<--+---+---+---+---+---+---+---+---+---+---+---+---+---+--->
   10  20  30  40  50  60  70  80  90  100 110 120 130 140 150
```

Make Box and Whisker Plots for the following data sets **BY HAND.**

4. Heights of people in a classroom (measured in inches)

66   70   63   67   64   65   69   76   65   68   65   60   75   66   69

```
 <———+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——>
     60                65                70                75                80  x
```

Make Box and Whisker Plots for the following data sets **BY HAND.**
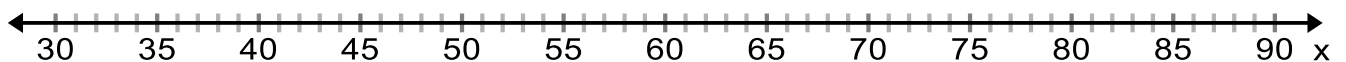
5.   Bowling scores from a league at Jack and Jill's.

181   185   156   180   181   195   186   177   182   183   178   177   184   191

```
                                                                                          x
 <———————————————————————————————————————————————————————————————————————————————————————>
     150      155      160      165      170      175      180      185      190      195      200
```

6. Temperatures in Utah's largest cities on May 1, 2014

55   58   36   52   75   63   82   43   53   88   68   77   42   48   39   74   56

```
 <———————————————————————————————————————————————————————————————————————————————>
     30      35      40      45      50      55      60      65      70      75      80      85      90  x
```

7. The wait time (in minutes) for a several rides was estimated at Lagoon.
65, 21, 17, 52, 25, 17, 11, 22, 60, 44.

Create a histogram for the data

Interval	Tally	Frequency
11-20		

y

8. The money raised per student in Mr. Brown's 5th grade class is shown. Create a frequency chart and histogram for the data. Use 1-10 as your first interval.

Money Raised per Student (dollars)									
41	27	52	18	42	32	16	95	27	65
36	45	5	34	50	15	62	38	57	20
38	21	33	58	25	42	31	8	40	28

Interval	Tally	Frequency
1-10		

y

9. Daily temperatures for the month of December in Houston, TX are shown. Create a frequency table and histogram for the data. Use 40-44 as your beginning interval.

Temperature (°F)														
48	50	55	53	57	53	44	61	57	49	51	58	46	54	57
50	55	47	57	48	58	53	49	56	59	52	48	55	53	51

Interval	Tally	Frequency
40-44		

A survey was taken about body image. The results were organized into a two way table. Complete the two way table and answer the following questions.

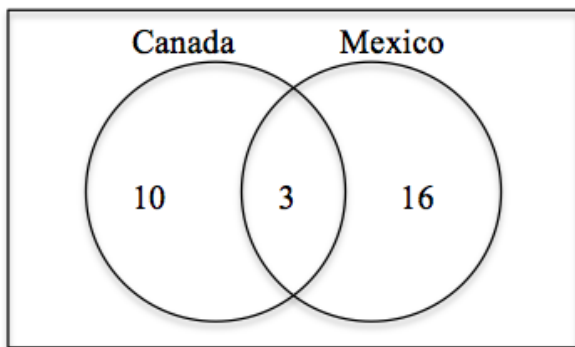|	About Right	Overweight	Underweight	Total
Females	560			760
Males		72	73	
Total	855		110	

10. What percent of females thought their bodies were about the right size?

11. What percent of people who believed they were overweight were males?

12. What percent of people surveyed felt they were not the correct weight?

13. What percent of people surveyed were males that felt they were underweight?

A school dance was held, and you observed the number of students wearing purple. Out of 654 students that were at the dance, 391 were not wearing purple. There were 136 girls wearing purple. There were 309 boys at the dance. Create a two-way table summarizing the data and answer the following questions.

14. What percent of boys were wearing purple?

15. What percent of students wearing purple were girls?

16. What percent of students at the dance were boys that were not wearing purple?

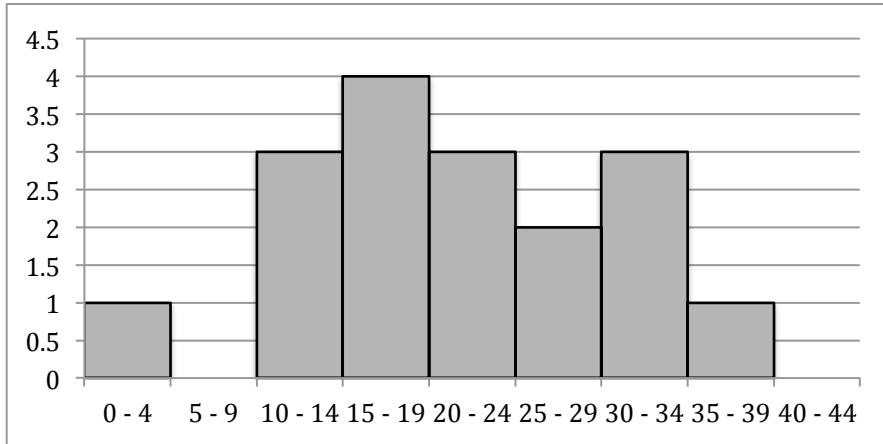17. What percent of students wore purple to the dance?

A class of 40 students was surveyed about if they had visited Canada or Mexico. The results are shown in a Venn diagram. Create a two way table summarizing the data and answer the following questions.

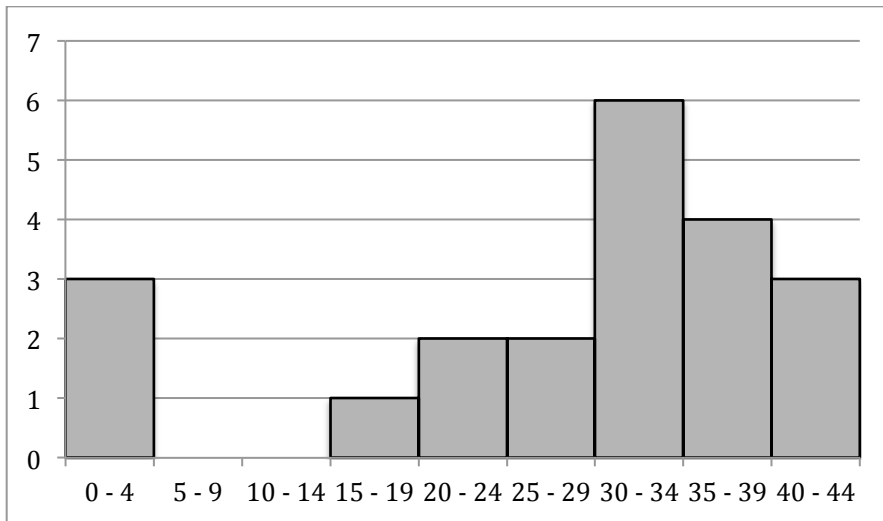|			

18. What percent of students that have been to Mexico have been to Canada as well?

19. What percent of students that have been to Canada have not been to Mexico?

20. What percent of students surveyed have been to Canada?

21. What percent of students surveyed have not been to either country?

What is the distribution of each of the following histograms? (skew left, skew right and normal)
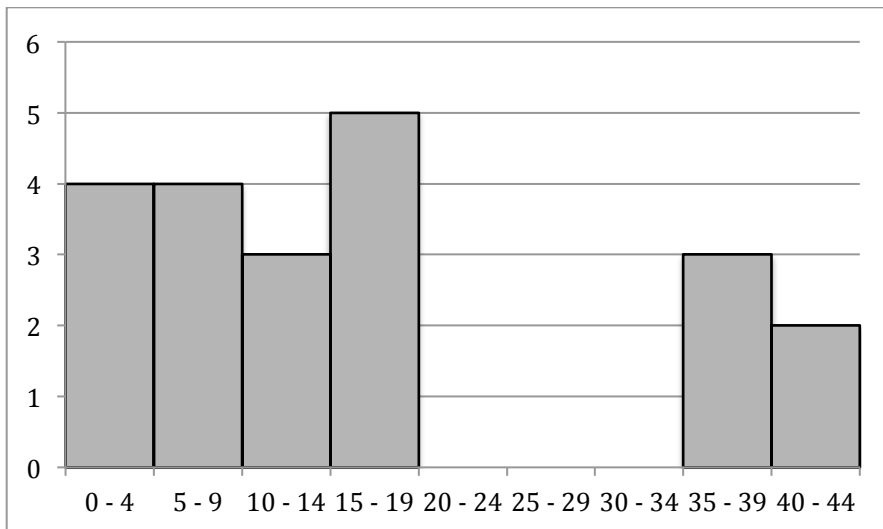
22.

Mean: 22.41
Median: 20

23.

Mean: 26.14
Median: 30

24.

Mean: 18.76
Median: 14