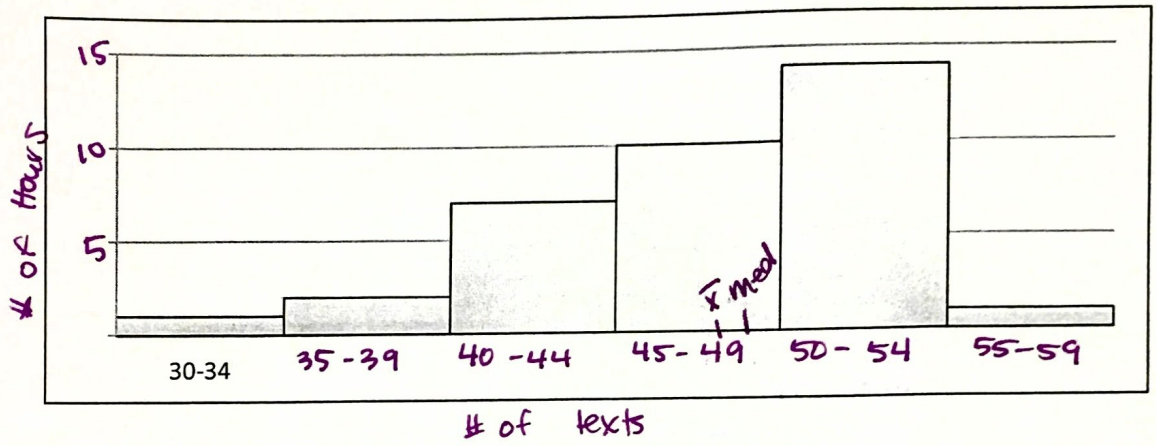
NAME: Period: SCORE: / = %=

# HW 8-3
## Sec 1 Measures of Spread Unit 8

**The phone company kept track of the number of text send each hour.**

**42, 48, 51, 39, 47, 50, 48, 51, 54, 46, 49, 36, 50, 55, 51, 43, 46,**
**50, 52, 43, 40, 33, 51, 45, 53, 44, 40, 52, 54, 48, 51, 47, 43, 50, 46**

**1.** The histogram of the data set is shown below. Finish labeling the histogram on both axes and titles. Mark the median and mean in the interval in which they occur.




**2.** Use a graphing calculator to find the mean, median, and standard deviation.

$\bar{x}$ = 47.09
*Med* = 48
$\sigma$ = 5.18

**3.** Mark the median and mean in histogram bar in which it occurs.

**4.** Describe the distribution – normal, skewed right, or skewed left.

**5.** If the distribution is normal, calculate one standard deviation above and below the mean.

Below: _____ Mean: _____ Above: _____

**An amusement park manager kept track of how many bags of cotton candy they sold each hour on a Saturday.**

**16, 24, 15, 17, 22, 16, 18, 24, 13, 25, 21**

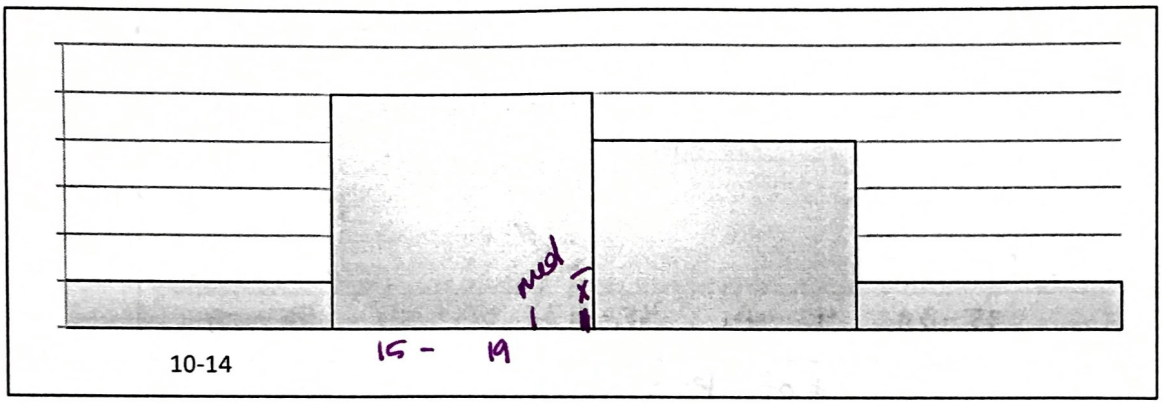
**6.** Find the mean, median, and standard deviation.

$\bar{x} = 19.18$

$Med = 18$

$\sigma = 3.97$

**7.** The histogram of the data set is shown below. Finish labeling the histogram on both axes and titles. Mark the median and mean in the interval in which they occur.




**8.** Mark the median and mean in histogram bar in which it occurs.

on graph

**9.** Describe the distribution – normal, skewed right, or skewed left.

**10. If the distribution is normal**, calculate one standard deviation above and below the mean.

Below: 15.21 Mean: 19.18 Above: 23.15

$-\sigma$ $+\sigma$

**Ms. Johnson asks all of the members of the girls' tennis team to find the number of hours each week they work at part-time jobs.**

**10, 12, 0, 6, 9, 15, 12, 10, 11, 20**

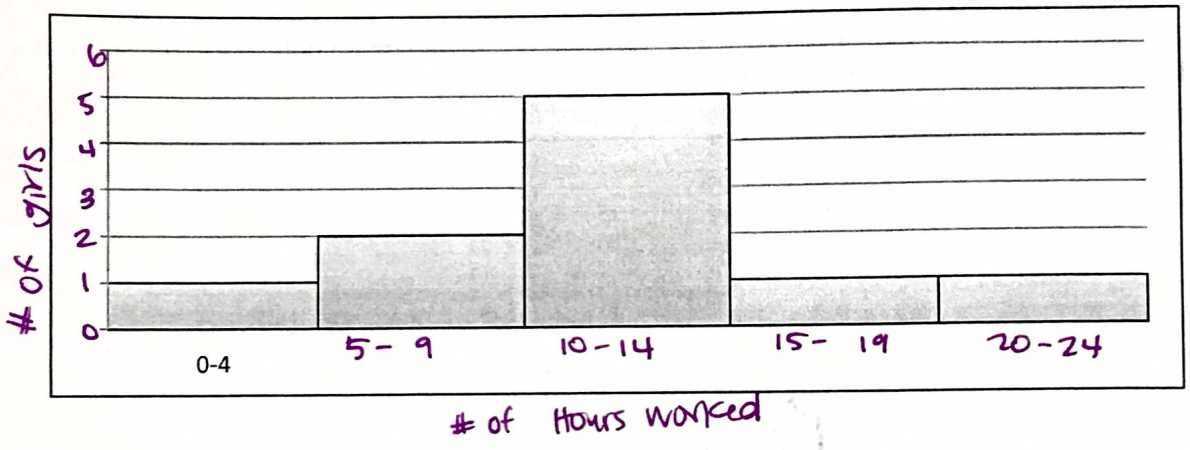
**11.** Find the mean, median, and standard deviation.

$\bar{x} =$ 10.5

*Med* = 10.5

$\sigma =$ 4.98

**12.** The histogram of the data set is shown below. Finish labeling the histogram on both axes and titles. Mark the median and mean in the interval in which they occur.




**13.** Mark the median and mean in histogram bar in which it occurs.

**14.** Describe the distribution – normal, skewed left, or skewed right.

**15. If the distribution is normal**, calculate one standard deviation above and below the mean.

Below: _____ Mean: _____ Above: _____

**The owner of a public swimming pool tracked the daily attendance.**

| Daily Attendance | | | | | |
|---|---|---|---|---|---|
| 86 | 45 | 91 | 104 | 95 | 88 |
| 111 | 85 | 79 | 102 | 166 | 103 |
| 89 | 94 | 79 | 103 | 88 | 84 |

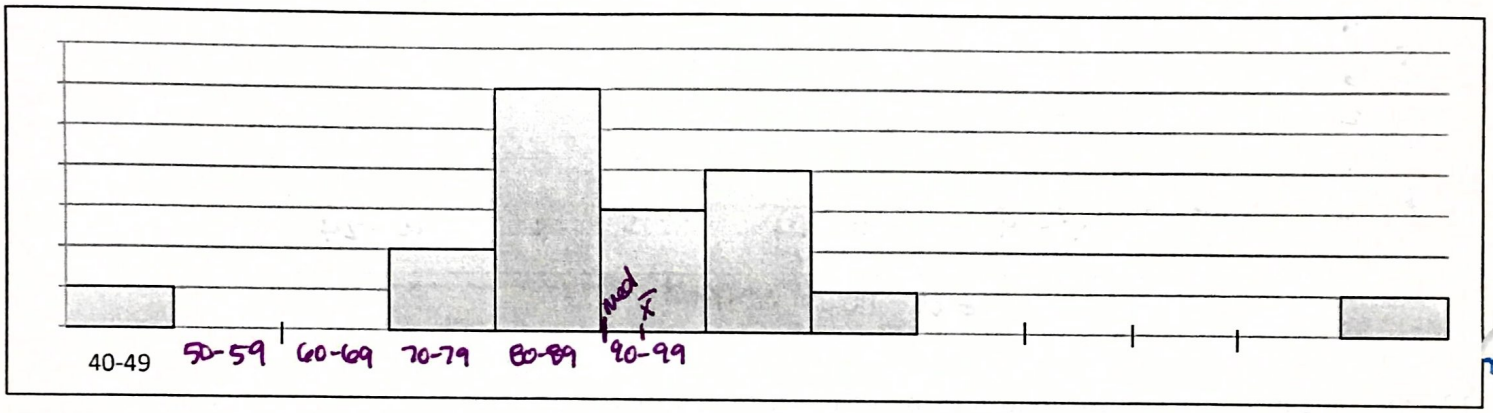
**16.** Find the mean, median, and standard deviation.

$\bar{x}$ = 94

*Med* = 90

$\sigma$ = 22.36

**17.** The histogram of the data set is shown below. Finish labeling the histogram on both axes and titles. Mark the mediate and mean in the interval in which they occurs.




**18.** Mark the median and mean in histogram bar in which it occurs.

on graph

**19.** Describe the distribution – normal, skewed right, or skewed left.

**20. If the distribution is normal**, calculate one standard deviation above and below the mean.

Below: _____ Mean: _____ Above: _____