

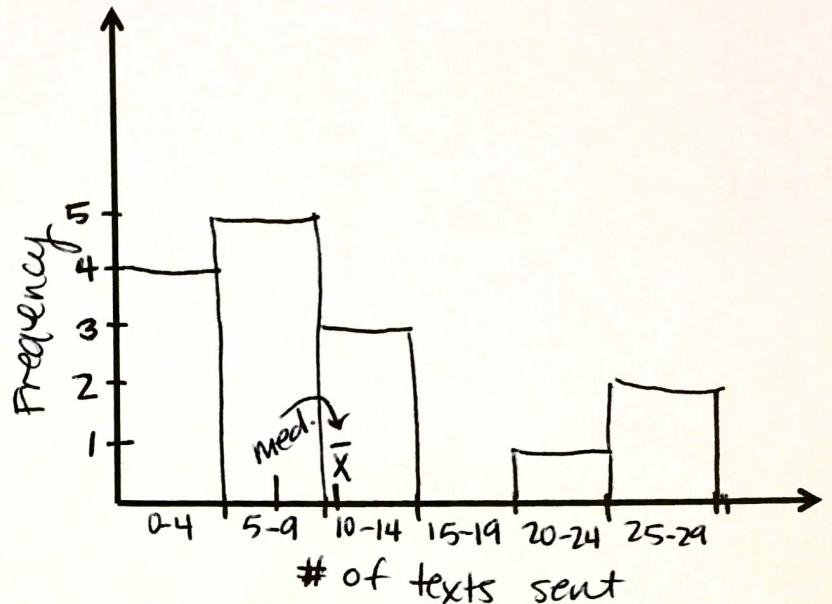
Name: _____ Period: _____

7-1,2,3 QUIZ PRACTICE

1. Construct a **histogram** given the following set of data and frequency chart.

I surveyed my friends to see how many texts they sent yesterday from their phones. The following are their responses: 0, 1, 1, 2, 5, 6, 6, 7, 9, 10, 11, 14, 23, 27, 28

# texts sent	Tally	Frequency
0 - 4	IIII	4
5 - 9	IIII	5
10 - 14	III	3
15 - 19		0
20 - 24	I	1
25 - 29	II	2



2. Calculate the mean and median from the data provided in #1.

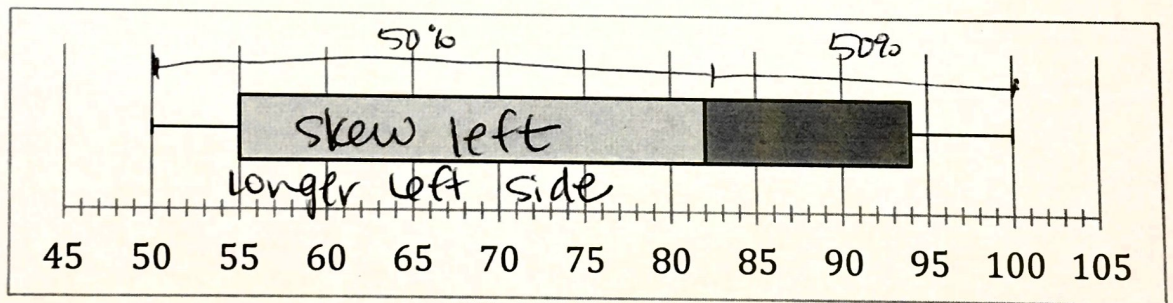
$\bar{x} = 10$ median = 7

3. What is the distribution of the data in #1? (normal, skew left, skew right)

Skew right. \bar{x} is in a HIGHER bar than median

4. What is the distribution of the box and whisker plot given below?

$\bar{x} = 75.25$
 min = 50
 Q1 = 55
 med = 82
 Q3 = 94
 max = 100



* ANY# past the limit is an outlier *

5. Determine if there are any outliers in the following data set. Show the upper and lower limits. If there are any outliers, state them.

{1, 6, 7, 8, 9, 10, 10, 12, 17, 23}

$Q_3 + 1.5(IQR) = 12 + 1.5(5) = 19.5$ upper limit

$Q_1 = 7$

$Q_1 - 1.5(IQR) = 7 - 1.5(5) = -0.5$ lower limit

IQR = 5

$Q_3 = 12$

* 23 is an outlier. It is outside the boundary