

Name: _____

September 25, 2012

Mr. McAusland – 6th Grade Math

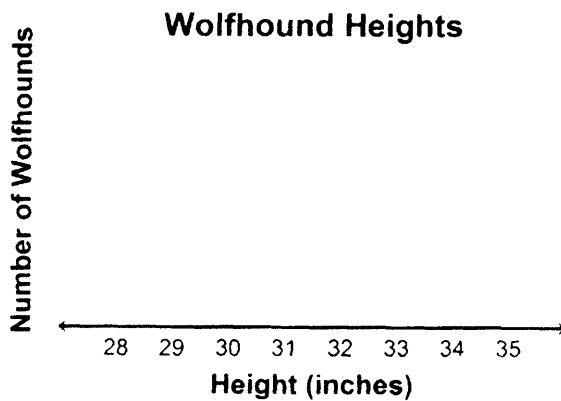
Unit 1 – Practice Quiz

1.  Use pencil and paper to answer the question.

Irish wolfhounds are the tallest of all dog breeds. Some heights (in inches) for these dogs are represented by the following data set.

31, 30, 33, 30, 30, 34, 32, 31, 29, 31, 33, 30, 33

- a. Construct a line plot to represent the dog data.



2.  Use pencil and paper to answer the question.

The ages of teachers in Community School appear in the following data set.

34, 23, 30, 46, 29, 27, 40, 30, 56, 24, 47, 57, 31, 60, 44, 37, 52

- a. Construct a stem-and-leaf plot of the ages of the teachers.

**Ages of Teachers at
Community School**

Stems (10s)	Leaves (1s)

3.  Use pencil and paper to answer the question.

The ages of the people in line at a movie are 30, 34, 13, 32, 28, 28, and 30.

a. Find the median age and the mean age.

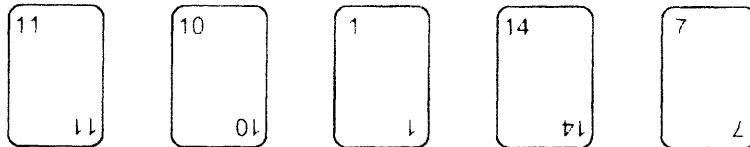
median: _____

mean: _____

(ROUND TO NEAREST TENTH)

b. Which landmark, the mean or median, is the better representation of the ages of the people? Explain.

4. Suppose you are dealt the hand shown below in a game of *Landmark Shark*.

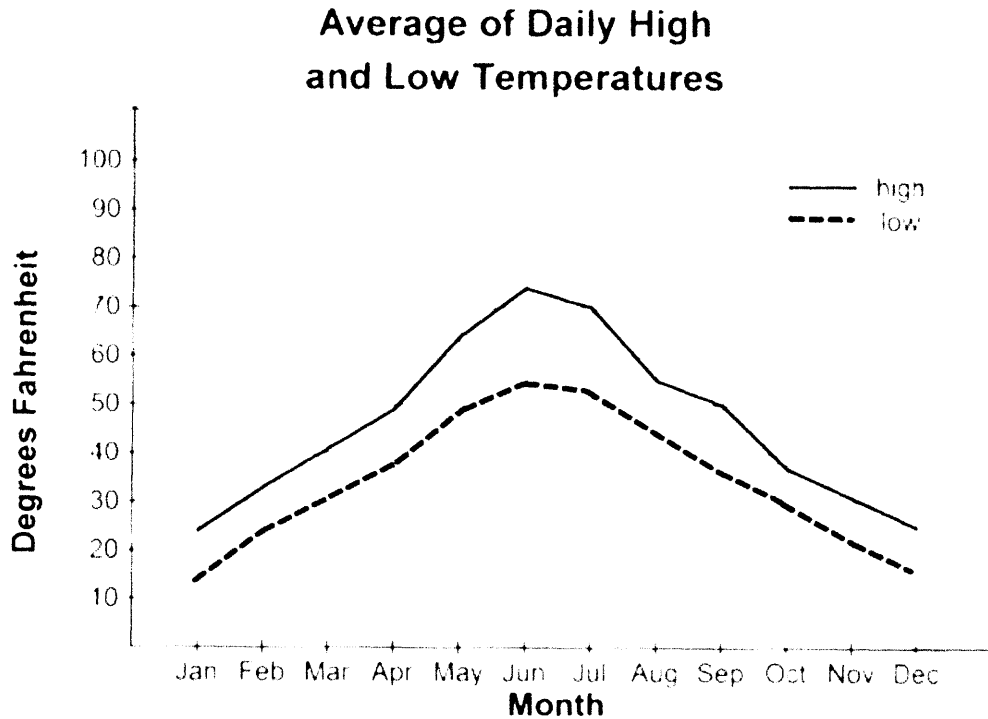


Which landmark will show you the highest score for your hand?

Range, median, or mode? _____

5.  Use pencil and paper to answer the question.

Study the double-line graph below



On average, what is the

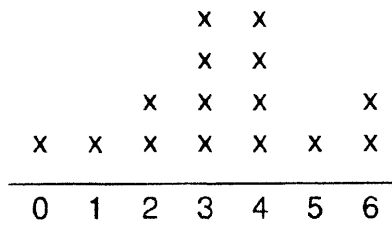
a. warmest month of the year? _____

b. coldest month of the year? _____

c. Compare the average daily high and low temperatures in August.

About how much warmer is the high temperature? _____

6. Use Line Plot A to determine the following information



Line Plot A

Median _____

Minimum _____

Mode _____

Maximum _____

Mean _____

7. Use Plot 1 to determine the following information

Plot 1

Unit: inches

Stems (10s)	Leaves (1s)
4	4 6 8
5	0 0 3 3 4 5 6 7 7 8 8 9
6	0 0 1 3 8 9

Median _____

Minimum _____

Mode _____

Maximum _____

Mean _____

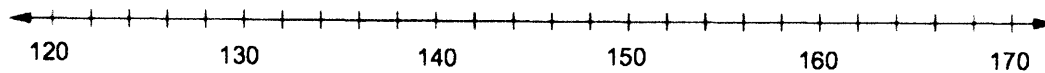
(ROUND TO NEAREST WHOLE NUMBER)

8. Use the data to determine the following information

Boys' heights: 157, 150, 131, 143, 147, 169, 148, 147, 145, 163, 139, 151

- a. Maximum: _____
- b. Minimum: _____
- c. Range: _____
- d. Median: _____
- e. Lower quartile: _____
- f. Upper quartile: _____
- g. Interquartile range: _____

Construct a Box-and-Whisker Plot for the above data



Name: KE

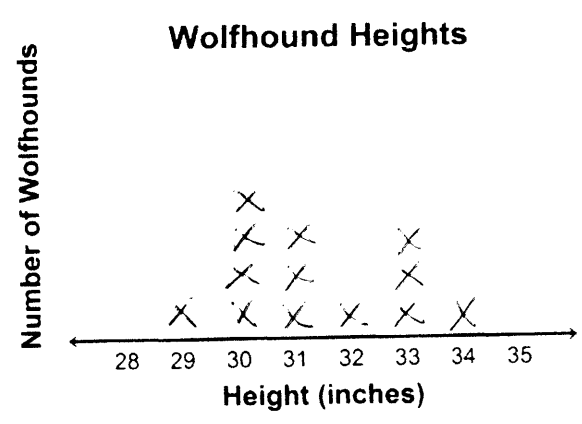
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Unit 1 – Practice Quiz

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a. Construct a line plot to represent the dog data.



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The ages of teachers in Community School appear in the following data set.

~~34, 23, 30, 46, 29, 27, 40, 30, 56, 24, 47, 57, 31, 60, 44, 37, 52~~

a. Construct a stem-and-leaf plot of the ages of the teachers.

**Ages of Teachers at
Community School**

Stems (10s)	Leaves (1s)
2	3 4 7 9
3	0 0 1 4 7
4	0 4 6 7
5	2 6 7
6	0

3. Use pencil and paper to answer the question.

The ages of the people in line at a movie are 30, 34, 13, 32, 28, 28, and 30.

a. Find the median age and the mean age.

13, 28, 28, 30, 30, 32, 34
 median: 30

mean: $\frac{195}{7} = 27.85714... = \underline{\underline{27.9}}$

(ROUND TO NEAREST TENTH)

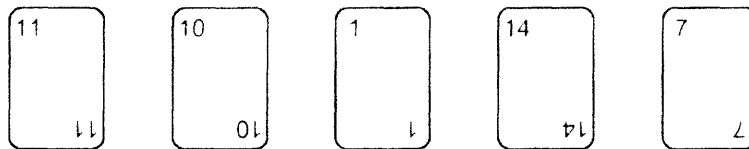
b. Which landmark, the mean or median, is the better representation of the ages of the people? Explain.

MEDIAN. THE MEAN ONLY HAS ONE VALUE LOWER THAN IT.

34
 32
 30
 30
 28
 28
 13

 195

4. Suppose you are dealt the hand shown below in a game of Landmark Shark.



Which landmark will show you the highest score for your hand?

Range, median, or mode? RANGE

$RANGE = 14 - 1 = 13$

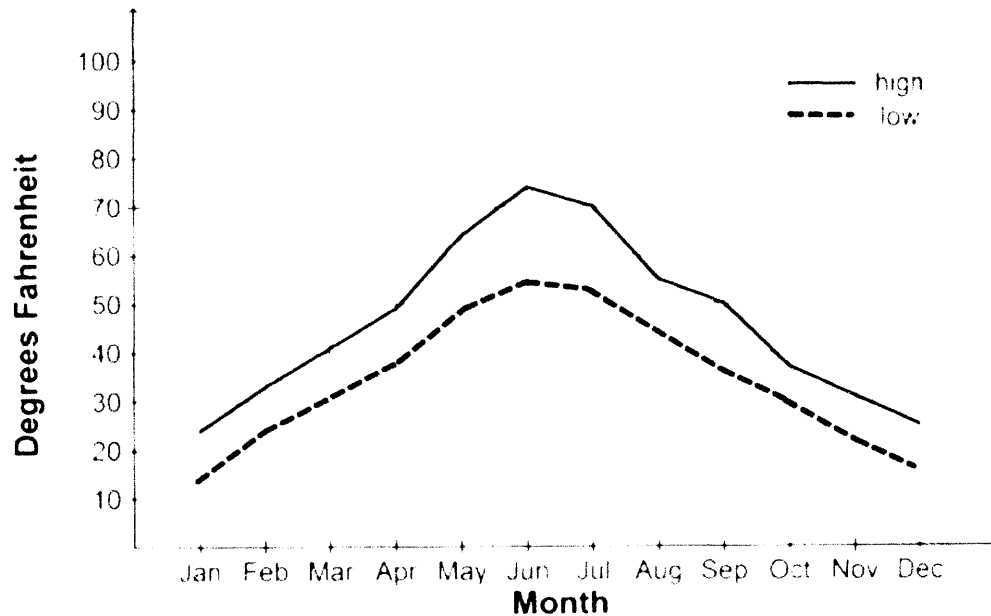
$MEDIAN = 10$

$MODE = NO MODE$

5. Use pencil and paper to answer the question.

Study the double-line graph below

Average of Daily High and Low Temperatures



On average, what is the

a. warmest month of the year? JUN

b. coldest month of the year? JAN

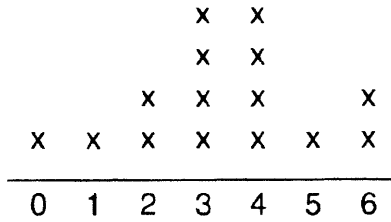
c. Compare the average daily high and low temperatures in August.

About how much warmer is the high temperature? 11 ~~20-35~~ 5

$$55 - 44 = 11$$

HIGH - LOW

6. Use Line Plot A to determine the following information



Line Plot A

Median 3

Minimum 0

Mode 3, 4

Maximum 6

Mean $\frac{50}{15} = 3.\bar{3}$ or $3\frac{1}{3}$

7. Use Plot 1 to determine the following information

Plot 1

Unit: inches

Stems (10s)	Leaves (1s)
4	4 6 8
5	0 0 3 3 4 5 6 7 7 8 8 9
6	0 0 1 3 8 9

Median 57

Minimum 44

Mode 50, 53, 57, 58, 60 Maximum 69

Mean $\frac{1179}{21} = 56.14285... = \underline{\underline{56}}$
 (ROUND TO NEAREST WHOLE NUMBER)

8. Use the data to determine the following information

Boys' heights: 157, 150, 131, 143, 147, 169, 148, 147, 145, 163, 139, 151
131, 139, 143, 145, 147, 147, 148, 150, 151, 157, 163, 169

- a. Maximum: 169
- b. Minimum: 131
- c. Range: $169 - 131 = 38$
- d. Median: 147.5
- e. Lower quartile: 144
- f. Upper quartile: 154
- g. Interquartile range: $154 - 144 = 10$

Construct a Box-and-Whisker Plot for the above data

