

## Final Exam Review – Unit 5

Name: hey

Date: \_\_\_\_\_

1. Max compiled a list of these car prices: \$7500, \$6500, \$5750, \$4900, \$6250, \$4200: Find the mean & median of the prices.

4200, 4900, 5750, 6250, 6500, 7500

MEDIAN = 6000

MEAN = 5850

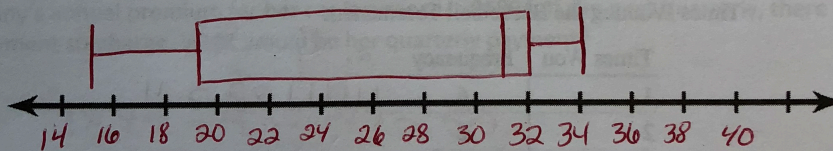
2. Below are the tire pressures at an auto clinic. Find the quartiles and sketch a box-and-whisker plot of the data.

MIN  $Q_1=19$   $Q_2=31$   $Q_3=32$  MAX  
15, 17, 21, 25, 31, 32, 32, 32, 34

$Q_1$ : 19

$Q_2$ : 31

$Q_3$ : 32



3. What percent of the numbers in any data set are:

a) above  $Q_3$ ? 25%

b) between  $Q_1$  and  $Q_3$ ? 50%

c) between the min and  $Q_3$ ? 75%

d) between  $Q_1$  and  $Q_2$ ? 25%

4. In the data set below, find the measures of center and measures of spread.

### Academy Awards

Movie	# Awards	Movie	# Awards
Grand Hotel	1	Rain Man	4
You Can't Take It with You	2	A Man for All Seasons	6
Cimarron	3 $Q_1$	Patton	7 $Q_3$
Crash	3	My Fair Lady	8
The Life of Emile Zola	3	Lord of the Rings: Return of the King	11
Ordinary People	4 $Q_2$		

Mean: 4.72

Median: 4

Mode: 3

Range: 10

IQR: 4

5. In the data set below, find the measures of center and measures of spread.

### Times Winning the Basketball Tournament

Times Won	Frequency
1	6
2	2
3	1
11	1

$Q_1 = 1, Q_2 = 1, Q_3 = 3$

1, 1, 1, 1, 1, 2, 2, 3, 11

Mean: 2.4

Median: 1

Mode: 1

Range: 10

IQR: 1

6. In the data set below, find the measures of center and measures of spread.

Single Family Home Prices

Stem	Leaf
46	3 6 9
47	5 6 8 8
48	2 6
49	2

Key: 47|5 = 475,000

Mean: 476,500

Median: 477,000

Mode: 478,000

Range: 29,000

IQR: 13,000

7. Jenny's annual premium for her car insurance is \$1894. If she pays quarterly, there is a \$5 per payment surcharge. What would be her quarterly payment?

$$\$1894 \div 4 = \$473.50$$

$$\$473.50 + \$5 = \boxed{\$478.50}$$