## Final Exam Review - Unit 5

Name:	Date:
1. Max compiled a list of these car prices: \$\frac{1}{mean & median}\$ of the prices.	\$7500, \$6500, \$5750, \$4900, \$6250, \$4200. Find the
whisker plot of the data.	clinic. Find the quartiles and sketch a box-and-
	Q <sub>3</sub> :
<del>&lt;++++++++++++++++++++++++++++++++++++</del>	<del></del>
3. What percent of the numbers in any da	ita set are:
a) above Q <sub>3</sub> ?	b) between $Q_1$ and $Q_3$ ?
c) between the min and $Q_3$ ?	
d) between $\Omega_4$ and $\Omega_2$ ?	

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

## Academy Awards

Movie	# Awards
Grand Hotel	1
You Can't Take It with You	2
Cimarron	3
Crash	3
The Life of Emile Zola	3
Ordinary People	4

Movie	# Awards
Rain Man	4
A Man for All Seasons	6
Patton	7
My Fair Lady	8
Lord of the Rings: Return of the King	11

Mean:	Median:
Mode:	Range:
IQR:	

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

Mean:	Median:
Mode:	Range:
IOD	
IQR:	

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

Single Family Home Prices

Stem	Leaf
46	369
47	5688
48	26
49	2

Key: 47|5 = 475,000

Mean:	Median:
Mode:	Range:
IOR·	

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?

8. Mary has \$1000 deductible collision insur \$3400 worth of damage to her car. How r	rance. She backs her car into a mailbox and causes much will:
Mary have to pay:	Insurance have to pay:
damaged. The pole will cost \$3800 to fix	nat had s bicycle leaning against it which was also s, the bicycle will cost \$1300 to replace, and there \$10,000 liability insurance, how much of the damage
	ne gets into an accident with a bus, causing injury to \$10,000 as a result of a lawsuit. How much will:
The insurance company pay each pe	erson:
The insurance company pay total:	
Joan pay (total):	

11. You buy a car for \$32,000. Two years later, it is worth \$24,000.
a) What is its rate of depreciation?
b) What is the depreciation equation?
c) Use your depreciation equation to determine the car's worth in 5 years.
12. The straight line depreciation equation for a car is $y = -3400x + 85,000$ .
a) What is the original price of the car?
b) How much value does the car lose per year?
c) How much is the car worth after 3 years?
13. The exponential depreciation equation for a car is $y = 26,600 \times 0.945^x$ . What is the car worth after 3 years?

14. A car is traveling at 74 mph when a deer jumps in front.	
a) What is the approximate reaction distance?	
b) What is the approximate braking distance?	
c) What is the approximate stopping distance?	