

Show your work and formulas!

1. List the terms for the following abbreviations:

- a. ac _____
- b. man _____
- c. cruise _____
- d. CD _____
- e. cyl _____
- f. 4X4 _____
- g. lthr _____
- h. p/ant _____
- i. ps _____
- j. pb _____

2. How much does an ad cost (if the pricing is \$32 for the first 6 lines and \$5 per line after ~~4~~⁶ lines) if you are buying 10 lines?

3. What is the "out the door" price for a car that cost \$40,000 in area with a sales tax of 6% where the registration cost \$675, the title cost \$50 and the dealer prep fee is \$275?

4. For the following set of data: 1, 15, 15, 15, 21, 25, 31, 32, 32, 34, 37, 75.

- a. What is the mean _____
- b. What is the mode _____
- c. What is the median _____
- d. What are Q_1 , Q_2 and Q_3 _____
- e. What is the Range? _____
- f. What is the Interquartile Range? _____
- g. Are there any outliers? (Show the formulas to compute the lower and upper bound used to determine if there are any outliers.)

5. Draw a Frequency chart for the data in #4.

Number	Frequency
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6. Draw a stem-and-leaf plot for the data in #4.

Ⓞ Box-N-Whisker

7. Kwan's annual insurance premium is \$2684. If he pays quarterly, there is a \$4 surcharge.

- What is his quarterly payment?
- What is his annual cost?

8. Your car was purchased for \$30,000 and is depreciated with a straight line method.

- How much does it depreciate each year?
- What is left to depreciate after 3 years?
- In how many years will it be valued at \$4,000?

9. At one time insurance cost went up 30% for each accident, 50% for each speeding ticket. If the base rate for the insurance was \$600 per six months what is the rate after 3 speeding tickets and an accident?

10. How far does a car go in 5 seconds if it is traveling at 50 miles per hour?

Given that 1 kilometer = .62 miles, 1 mile = 1.609 kilometers, 1 liter = .26 gallons, 1 gallon = 3.79 liters

11. Compute what 42 miles per gallon would be in Km/L.

12. How many kilometers in 600 miles?

13. While driving their classic import in Canada a couple used 40 liters to travel 140 miles.

- a. What is their mpg?
- b. Their Km/l?

14. In 1979 I traveled from Garden City, New York to Bagdad, AZ. Assuming the car got 15 miles per gallon, the cost of gas averages was \$0.95 per gallon, and it is 2,580 miles:

- a. What did it cost to make the trip?
- b. Adjusted for inflation the cost of gas would be \$2.67. What would the cost be in today's dollars.

15. An accident investigation gave the following information: 40 foot Chord, 5 foot middle ordinate, .85 drag factor.

- a. What is the approx. minimum speed? Set up in the formulas and compute.
- b. Why does it say minimum speed?

Extra Credit: What are the most important items you learned in this chapter and how will it impact your financial decisions in the future?