

(Total pts: 33)

Can be started after completion of study of the regression equation(10.3); 6 pts each, 9 pts for 10-8.

10-1 Attach **scatter** diagram labeled 10-1a. (weight (y) in col 9; age (x) in col 1)

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____
 (“Prediction” is section 10-3 of textbook.)

10-2 Attach **scatter** diagram labeled 10-2a. (See pp 8,9 on Transforming data)

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

10-6 Correlation? _____ Explain: _____

Equation: _____ Prediction: _____

10-7 Correlation? _____ Question: _____

Equation: _____ Prediction: _____

10-8 Use “Weights of Garbage Part I”.

| | <u>“r” value</u> | <u>Equation of regression line (3 significant digits for coefficients)</u> |
|---------|------------------|--|
| Metal | _____ | _____ |
| Paper | _____ | _____ |
| Plastic | _____ | _____ |
| Glass | _____ | _____ |

Which is the best predictor of household size? _____

Why? _____

Use the correct equation and predict the household size if the household garbage includes one pound of Metal, 7 pounds of paper, 2 pounds of plastic and 10 pounds of glass.
 _____ (one decimal place)

STATDISK CH 11 Answer sheet

(Total pts: 24)

Can be started after completion of multinomial experiments (11.2). 6 pts for #12.

"Conclusions" should be stated using the characteristics of the exercise problem. Eg: #2: "The sample data supports the claim that the each tire is chosen uniformly (equally)."

11-2 a. Test Statistic _____ Critical Value _____ P-Value _____

b. Conclusion in your own words _____

c. _____

11-3 a. Test Statistic _____ Critical Value _____ P-Value _____

b. Question #1 _____

Question #2 _____

11-6 a. Test Statistic _____ Critical Value _____ P-Value _____

b. Conclusion in your own words _____

11-7 a. Test Statistic _____ Critical Value _____ P-Value _____

b. Conclusion in your own words _____

11-9 Omit or For 5 extra points, tell me what's wrong with the classes in the "Observed Frequency" column and the numbers in the "Expected Frequency" column.

11-11 a. Test Statistic _____ Critical Value _____ P-Value _____

b. Conclusion in your own words _____

c. _____

11-12 a. Test Statistic _____ Critical Value _____ P-Value _____

| | Men | Women |
|---------|-----|-------|
| Fear | | |
| No Fear | | |

b. Conclusion in your own words _____

11-13 a. Test Statistic _____ Critical Value _____ P-Value _____

b. Conclusion in your own words _____

c. _____

d. _____

e. (Typo: change 8200 to 2000) _____