

(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 10-2 c. (See pp 8,9 on Transforming data)

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_

10-6 Correlation? \_\_\_\_\_ Explain: \_\_\_\_\_

Equation: \_\_\_\_\_ Prediction: \_\_\_\_\_

10-7 Correlation? \_\_\_\_\_ Question: \_\_\_\_\_

Equation:   N/A   Prediction: \_\_\_\_\_

10-8 Use “Weights of Garbage Part I”.

	<u>“r” value</u>	<u>Equation of regression line</u> (3 significant digits for coefficients)
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 multinominal 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)." I recommend writing the Claim,  $H_0$  and  $H_1$  in the margin in order to write out the conclusion correctly.

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) \_\_\_\_\_