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”.

<table>
<thead>
<tr>
<th>“r” value</th>
<th>Equation of regression line (3 significant digits for coefficients)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal</td>
<td></td>
</tr>
<tr>
<td>Paper</td>
<td></td>
</tr>
<tr>
<td>Plastic</td>
<td></td>
</tr>
<tr>
<td>Glass</td>
<td></td>
</tr>
</tbody>
</table>

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,
H₀ and H₁ 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 _________

<table>
<thead>
<tr>
<th></th>
<th>Men</th>
<th>Women</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Fear</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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)________________________________________________________________________________________