12.2

(a) Make an Excel scatter plot. What does it suggest about the population correlation between *X* and *Y*?

**Part-Time Weekly Earnings ($) by College Students WeekPay**

***Hours Worked (X) Weekly Pay (Y)***

10 93

15 171

20 204

20 156

35 261

12.3

(a)Make an Excel scatter plot. What does it suggest about the population correlation between *X* and *Y*? (Add the equation to the chart)

**Data Set Telephone Hold Time (min.) for Concert Tickets CallWait**

***Operators (X) Wait Time (Y)***

4 385

5 335

6 383

7 344

8 288

12.9

(a) Interpret the slope of the fitted regression *HomePrice* = 125,000 + 150 *SquareFeet*. (b) What

is the prediction for *HomePrice* if *SquareFeet* = 2,000? (c) Would the intercept be meaningful if

this regression applies to home sales in a certain subdivision?

12.55

Choose *one* of these three data sets. (a) Make a scatter plot. (b) Let Excel estimate the regression line, with fitted equation and *R*2. (c) Describe the fit of the regression.

**Commercial Real Estate (*X* = assessed value, $000; *Y* = floor space, sq. ft.)**

**Assessed**

*Assessed Size*

1,796 4,790

1,544 4,720

2,094 5,940

1,968 5,720

1,567 3,660

1,878 5,000

949 2,990

910 2,610

1,774 5,650

1,187 3,570

1,113 2,930

671 1,280

1,678 4,880

710 1,620

678 1,820