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