

6. Use Excel to obtain a scatterplot of the two variables. Add a trendline and have Excel calculate the regression equation. Paste the graph below.

7. Record the slope, the y-intercept and r^2 .

slope=

y-intercept=

r^2 =

8. Interpret the meaning of the slope and the y-intercept for this particular example.

slope:

y intercept:

9. Interpret the meaning of r^2 in this particular example.

10. What is the correlation coefficient? How strong is the linear relationship? Explain.

11. Does this relationship appear to be positive or negative?

12. Go on line to find today's predicted high temperature. Estimate the consumption for today's predicted temperature.

13. If the consumption is to attain a value of 0.41, what is the corresponding ambient temperature?