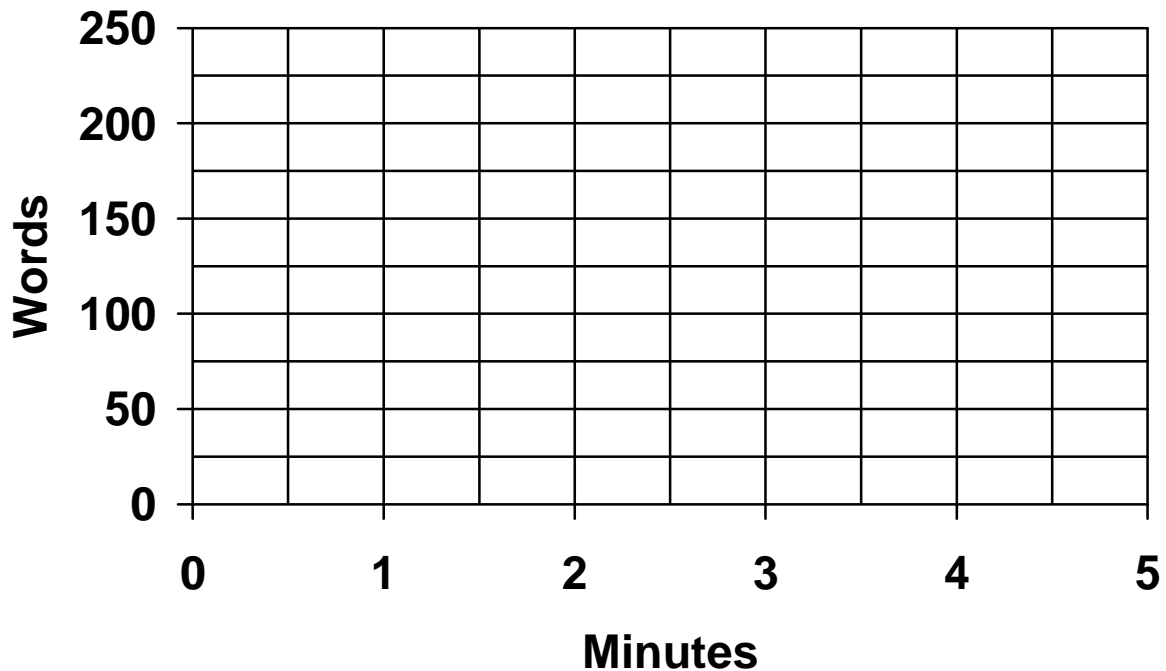# Scatter Plots – Worksheet #2

Typing Class

Step #1: Take the following information and make a scatter plot using the graph provided above.

Name	Minutes	Words		Name	Minutes	Words
Ash	2	80		Jill	4	150
Ben	1	30		Mandy	2.5	100
Carl	4	175		Pam	3	100
Dave	2	125		Rachel	3.5	225
Ed	3	140		Sue	1.5	50

Step #2: Draw a trend line for your scatter plot using the guidelines outlined in your notes.

Step #3: Determine the correlation present in your scatter plot.

Correlation: _____

Scatter Plots – Worksheet #2

Step #4: Write an equation for your trend line.

      a. Extend your trend line so that it crossed the y-axis. Determine the y-intercept.

      b. Determine the ordered pairs of two of the points that your trend line is passing through. Find the slope using the two points and the formula.

      c. Write your equation in $y = mx + b$ form.

      Equation of Trend Line: _____

Step #5: Make some predictions based on your equation of the trend line.

      a. How many words can a student type in 8 minutes?

      b. How many words can a student type in 15 minutes?

      c. Approximately how many minutes will it take a student to type a 2,500 word essay?