

**LAB ACTIVITY**

NAME \_\_\_\_\_

Starbucks Sales	
Years since 1990	Sales in Millions
6	\$696.5
8	\$1308.7

- 1) Open up a new spreadsheet in Microsoft Excel.
- 2) Type in the data in columns A and B. Title the columns the same as they are in the table.
- 3) Hilite just the data cells in the first two columns. (Do not hilite the titles)
- 4)
- 5) Click on the Chart Wizard icon on the tool bar.
- 6) Select the XY scatter plot. The graph option we want to use, which is just to plot the points, will already be selected. Click the 'next' button at the bottom of the display.
- 6) The data we are graphing is in column form so click 'next' again.
- 7) In the next dialogue box format your chart to have titles (with units), major gridlines and value labels for the points.
- 8) When you finish, place the chart as a NEW SHEET. Click the top "dot".
- 9) Looking at the chart, select the "Chart" menu and select "Add Trend line". Select the first option for a linear model. Excel will draw in the line of best fit for your data.
- 10) Now, looking at the chart, select the trend line drawn in and double click it until a new panel appears. Select the "Options" tab and at the bottom of the panel click the box next to "display equation on chart"

**Answer the questions about Starbucks on the other sheet.**

**REPEAT the above steps for the following:**

Walmart Stores	
Years since 1990	Number of stores
6	3054
8	3815

**Answer the following questions about Starbucks .**

What is the prediction equation of the trendline?

What is the value of the slope? Is it an increasing or a decreasing rate of change?

What is the actual interpretation of the slope as it applies to the data.

What is the interpretation of the y-intercept as it applies to this data?

Use the prediction equation to predict the year when Starbucks will have \$2,000 million in sales.

**Answer the following questions about WALMART**

What is the prediction equation of the trendline?

What is the value of the slope? Is it an increasing or a decreasing rate of change?

What is the actual interpretation of the slope as it applies to the data.

What is the interpretation of the y-intercept as it applies to this data?

Use the prediction equation to predict the year when Walmart will have 5,000 stores.