

The Wave

Name _____

Partner _____

Collect the Data

Draw a diagram of the experiment, indicating variables.

Describe the procedure for the experiment.

The independent variable, x , is _____ Units _____

The dependent variable, y , is _____ Units _____

Data Collection

Independent Dependent

Independent	Dependent

Points to Be Graphed

x y

x	y

The Wave

Name _____

Find the Equation

After plotting your data on graph paper, draw a straight line through two of your points. Choose the line that best fits your data. Circle the points on your graph and copy their coordinates below.

Your points: (____, ____) and (____, ____)

Use these points to find the equation of your line. Show your work.

Find the slope of the line.

Find the y -intercept of the line.

Write the equation of the line.

$$y = \frac{\quad}{\quad} x + \frac{\quad}{\quad}$$

rational form

$$y = \quad x + \quad$$

decimal form

Rewrite the decimal form of the equation, using the names of the variables instead of x and y .

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$