

Name _____ Hour _____

Inv 3.2D Equations in the form of $y = mx$ (pg71)

For each equation below, make a table of (x,y) values. Use whole number values of x from 0 to 10. Then use your table to make a graph. Graph each equation in a different color.

$$y = mx$$
$$Y = 2x$$

Table

$$y = mx$$
$$Y = 0.5x$$

Table

$$y = mx$$
$$Y = 1.5x$$

Table

$$y = mx$$
$$Y = x$$

Table

What is the connection between the number m and the pattern in the table of values and the graph of $y=mx$?

Circle the equation that has a steeper slope.

$$Y = 2x$$

$$Y = 0.5x$$

$$Y = 1.5x$$

$$Y = x$$

Explain why the equation you chose has a steeper slope:

Writing stories to represent equations.

$$Y = 0.5x$$

Possible Story: "If the operator of a juice bottle machine makes 50 cents profit on each sale, the profit in dollars on sale of x bottles will be given by $y = 0.5x$ "

y represents:

0.5 represents:

x represents:

$$Y = 2x$$

Possible Story:

y represents:

2 represents:

x represents:

$$Y = 1.5x$$

Possible Story:

y represents:

1.5 represents:

x represents: