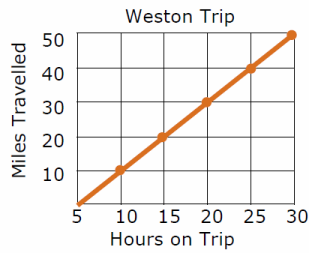


# Graphing Proportional Relationships

Name: \_\_\_\_\_

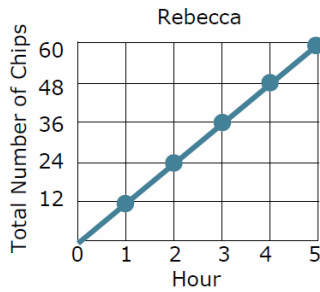
Weston & Jason ride their bikes across Michigan. The graph represents Weston's trip over a week. The equation represents Jason's constant pace. Who rides their bike faster?



Jason's Pace  
 $y = 20x$   
 $x = \text{hours}$   
 $y \text{ is miles}$



The graph below represents how many chips Rebecca eats in an hour. The equation represents the rate that Lisa eats chips at. Who eats more chips in 3 hours?



Leila

$y = 15x$   
 $x = \text{No. of hours}$   
 $y = \text{Number of Chips}$

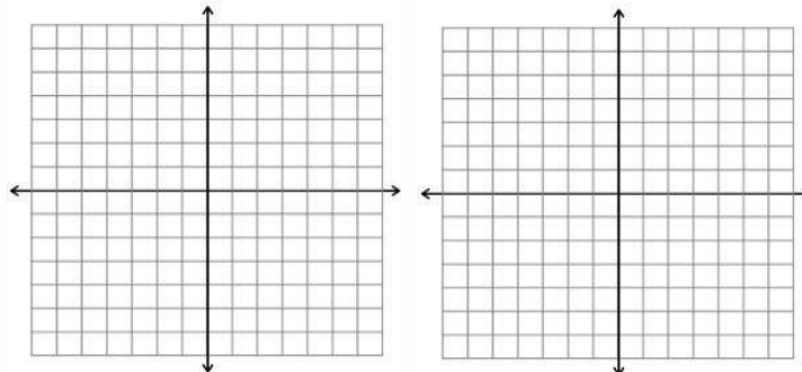
Determine if the equation represents a proportional relationship, then graph the equation.

$y = -2x + 1$

proportional?

$y = 3x$

proportional?



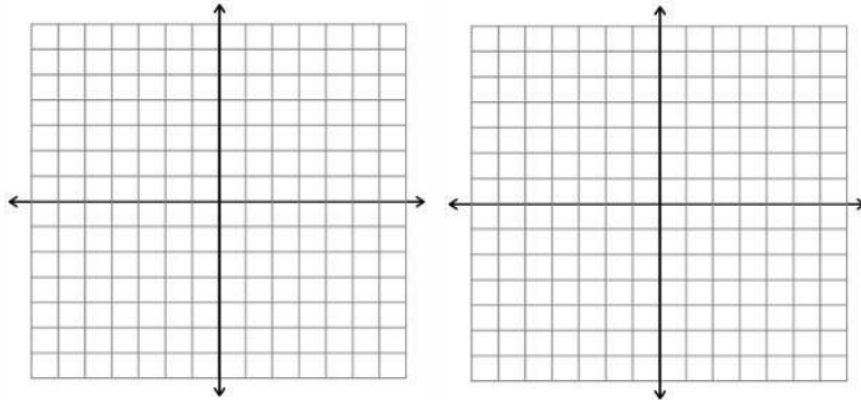
Determine if the equation represents a proportional relationship, then graph the equation.

$$\frac{1}{2}x + y = 4$$

$$y = \frac{1}{2}x$$

proportional?

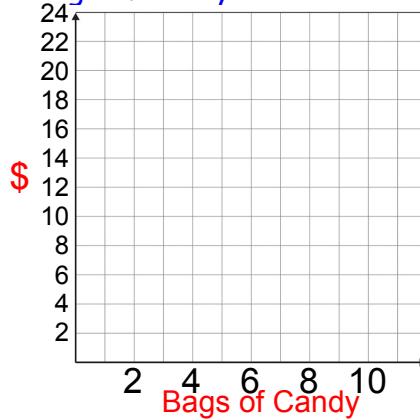
proportional?



Write an equation and graph the relationship.

You spend \$22 on 8 bags of candy.

slope-intercept  
or a table?



Compare and Contrast  $y = mx + b$  and  $y = mx$ .

Try to use good math vocabulary.

