## GRAPH PROPORTIONAL RELATIONSHIPS \#1

In a proportional relationship, all of the ratios of the two variables are equivalent. You can find the constant of proportionality, or the slope, of a proportional relationship by finding the ratio of $y$ to $x$.

Graph each proportional relationship. Plot at least 3 points that satisfy the relationship and connect them with a line. Then write the slope. Simplify any fractions. Number of points graphed may vary.
1.

Chef Romero made a batch of his famous vegetable noodle soup. He used 30 cups of broth and 5 cups of noodles. The amount of broth, $y$, is proportional to the amount of noodles, $x$.


What is the slope? 6
3. Layla is training for a triathlon. She biked 20 kilometers in 50 minutes. The distance traveled, $y$, is proportional to the amount of time, $x$.


What is the slope? $\frac{2}{5}$ or 0.4
2.

Brie used 10 bags of mulch to cover her garden beds. Her garden beds are 120 square feet in all. The area covered, $y$, is proportional to the number of bags of mulch used, $x$.

4. Kayden installed a fence along the edge of his patio. He paid $\$ 500$ for a 40 -foot fence. The cost, $y$, is proportional to the length of the fence, $x$.


