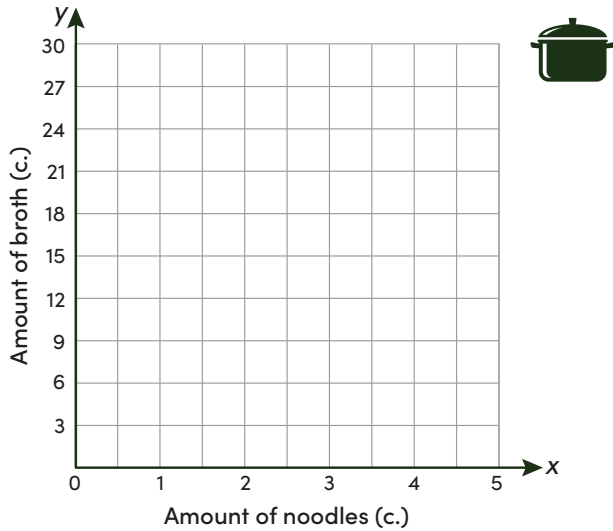


GRAPH PROPORTIONAL RELATIONSHIPS #1

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 .

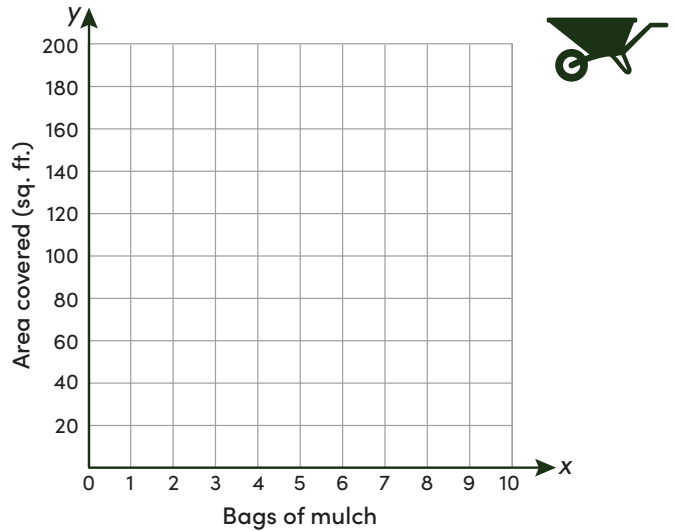
Graph each proportional relationship. Plot at least 3 points that satisfy the relationship and connect them with a line. Then write the slope. Simplify any fractions.

- 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 .



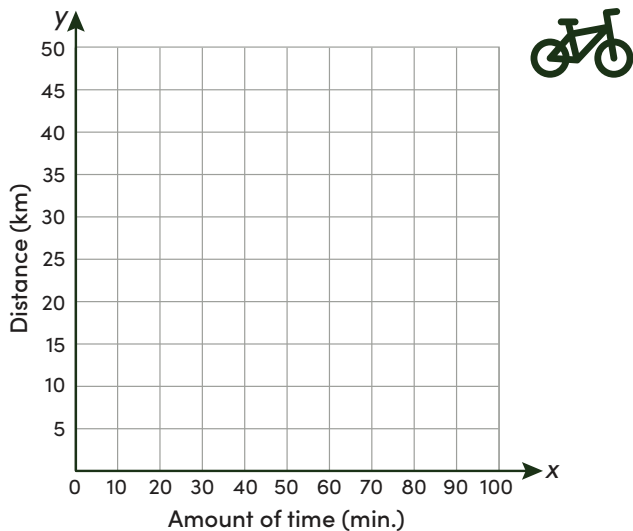
What is the slope? _____

- 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 .



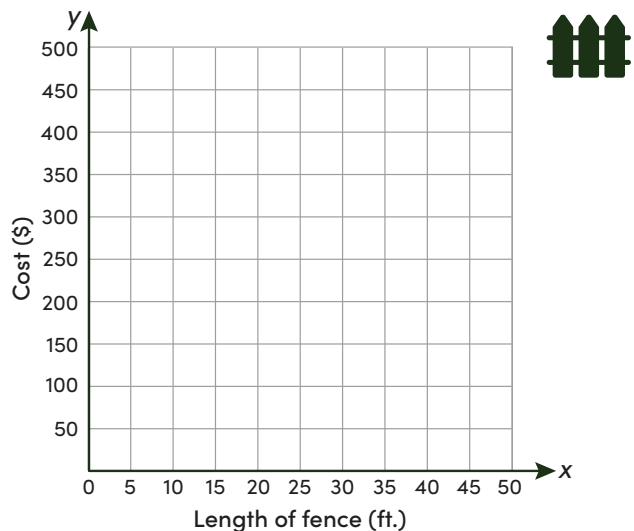
What is the slope? _____

- 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? _____

- 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 .



What is the slope? _____