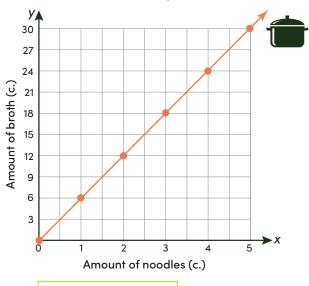
## GRAPH PROPORTIONAL RELAT

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.

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?

of time, x.

50

45

40

35

25

20

15

10

5

20

30

What is the slope?

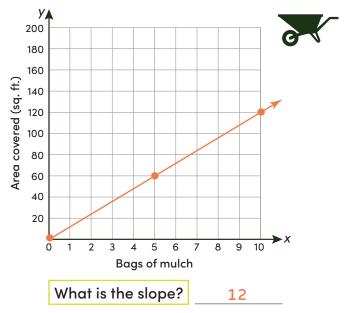
Amount of time (min.)

40 50 60 70 80 90 100

5 or 0.4

Distance (km) 30 6

Brie used 10 bags of mulch to cover her 2. 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.



Layla is training for a triathlon. She biked 20 kilometers in 50 minutes. The distance traveled, y, is proportional to the amount

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.



500 450 400 350 300 Cost (\$) 250 200 150 100 50 15 20 25 30 35 40 45 50 10 Length of fence (ft.)

What is the slope?

or 12.5