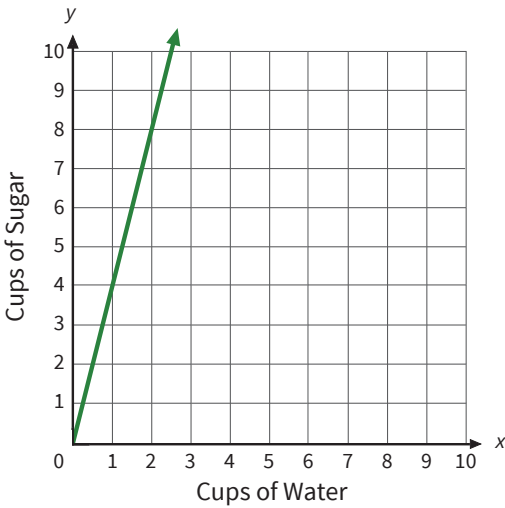


Find the Constant of Proportionality From Graphs

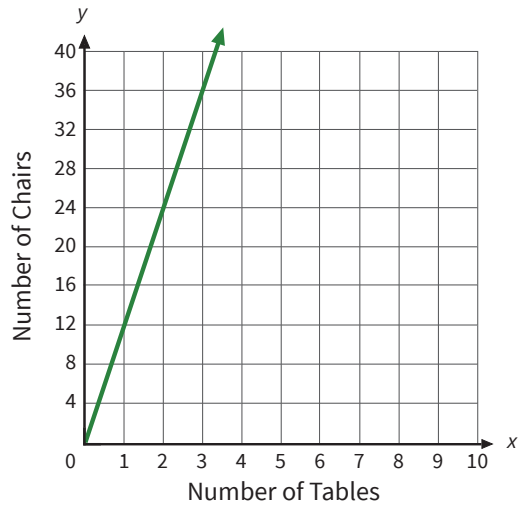
Each graph below shows a proportional relationship. Determine the constant of proportionality, k , for each graph. Write your answer in the box, and simplify any fractions.

- 1** Ada is growing sugar crystals for science class. There is a proportional relationship between the amount of water she uses, x , and the amount of sugar she uses, y .



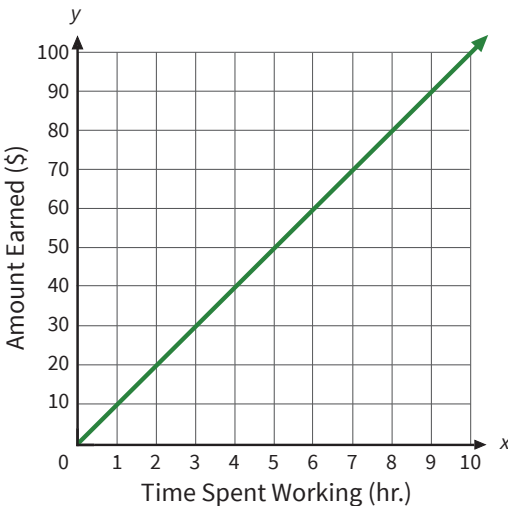
$k = 4$

- 2** The Riverside Fire Department is hosting a fundraising banquet. There is a proportional relationship between the number of tables needed, x , and the number of chairs needed, y .



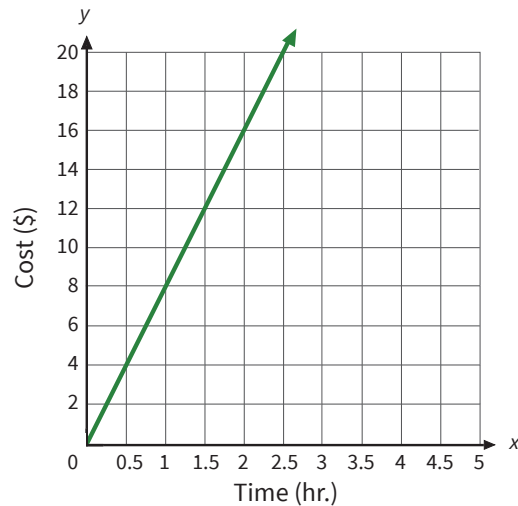
$k = 12$

- 3** Abdul is a lifeguard at Splash Central Water Park. There is a proportional relationship between the number of hours he works, x , and the total amount of money he earns, y .



$k = 10$

- 4** Levi is renting a pedal boat at the lake. There is a proportional relationship between the amount of time he rents the boat, x , and the total cost, y .

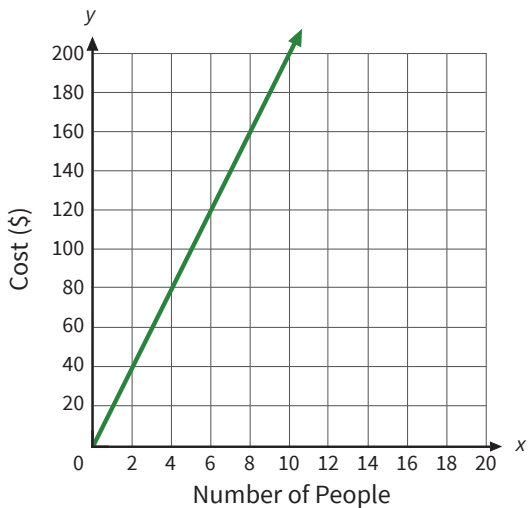


$k = 8$

Find the Constant of Proportionality From Graphs

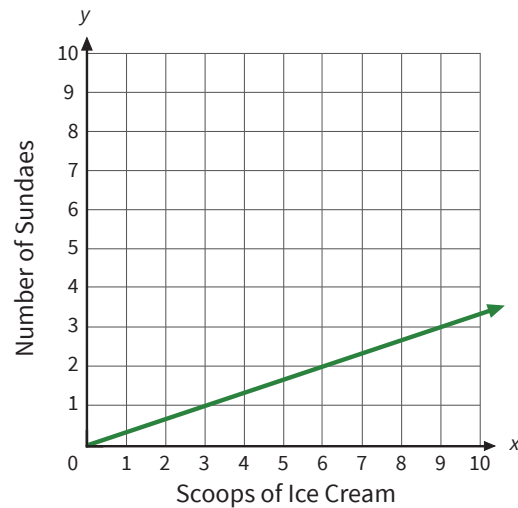
Keep going! Determine the constant of proportionality, k , for each graph below. Write your answer in the box, and simplify any fractions.

- 5** Nora is having her birthday party at a laser tag arena. There is a proportional relationship between the number of people playing laser tag at the party, x , and the total amount it will cost, y .



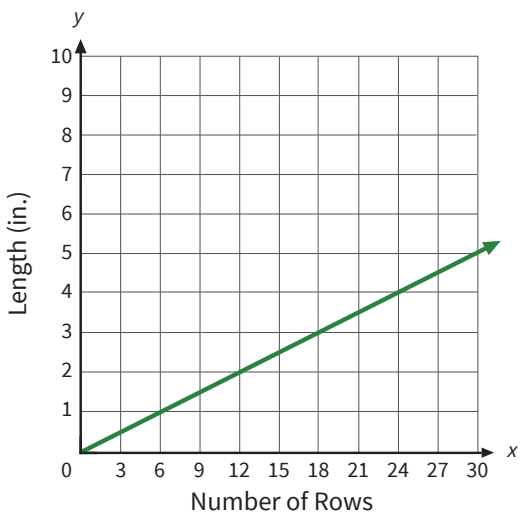
$$k = 20$$

- 6** Jane is making ice cream sundaes for her friends. There is a proportional relationship between the scoops of ice cream, x , and the number of sundaes, y .



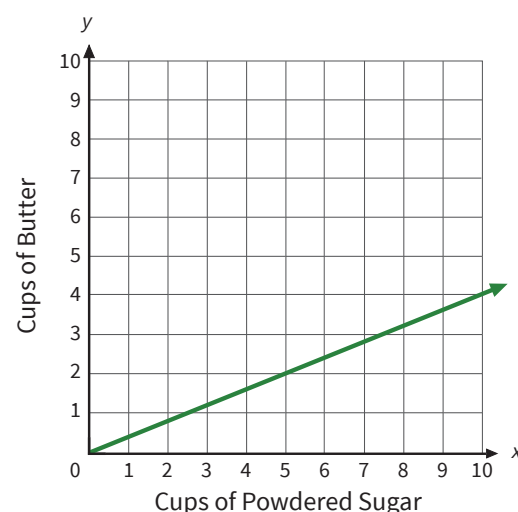
$$k = \frac{1}{3}$$

- 7** Maria is knitting a scarf. There is a proportional relationship between the number of rows she knits, x , and the length of her scarf, y .



$$k = \frac{1}{6}$$

- 8** Tyler is making frosting for his brother's graduation cake. There is a proportional relationship between the amount of powdered sugar he uses, x , and the amount of butter he uses, y .



$$k = \frac{2}{5}$$