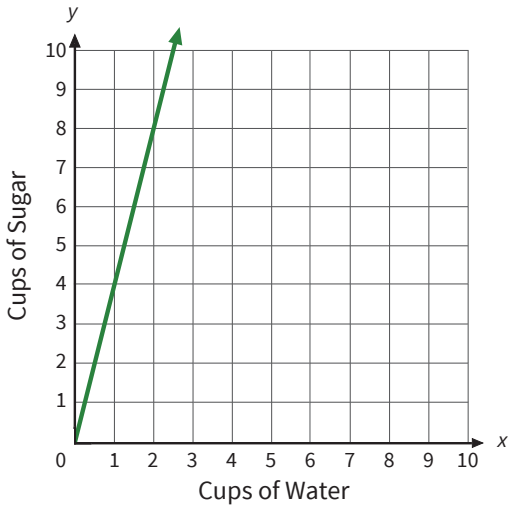
Find the Constant of Proportionality From Graphs

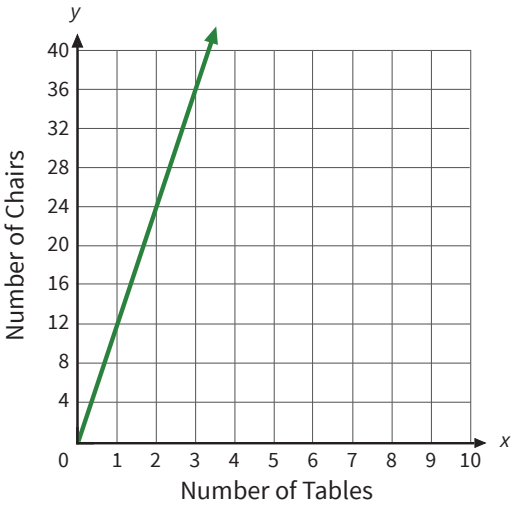
Each graph below shows a proportional relationship. Determine the constant of proportionality, *k*, for each graph. Write your answer in the box, and simplify any fractions.

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*.



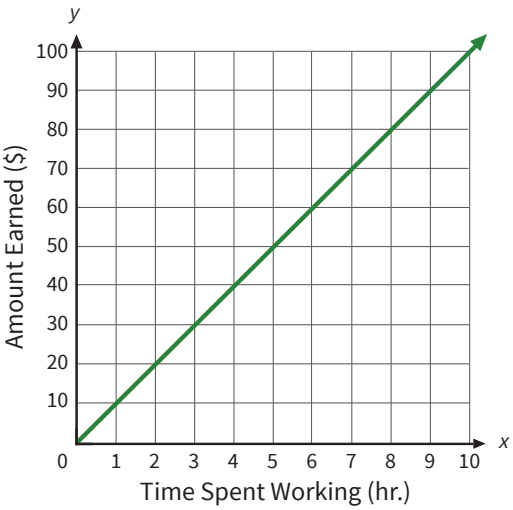
***k* =**

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*.



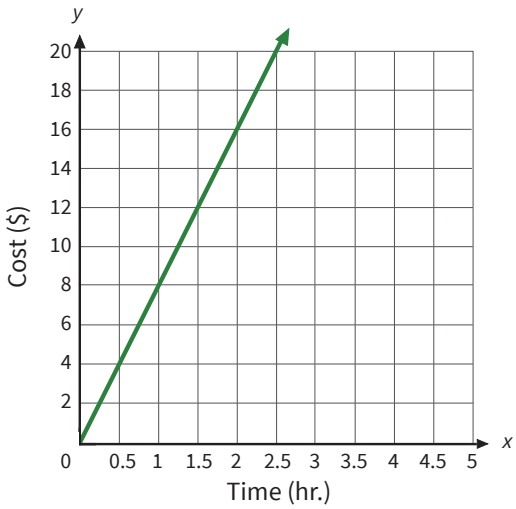
***k* =**

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* =**

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*.

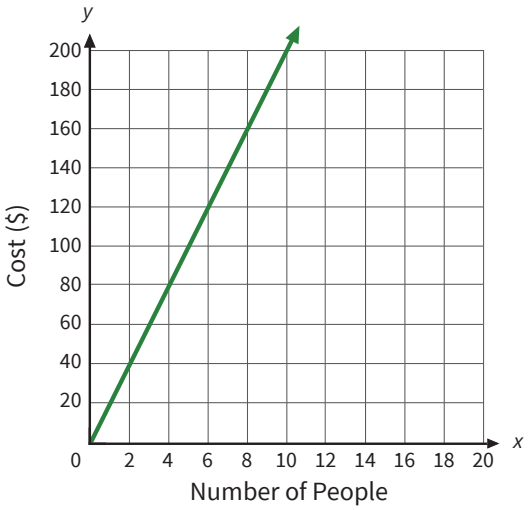


***k* =**

Find the Constant of Proportionality From Graphs

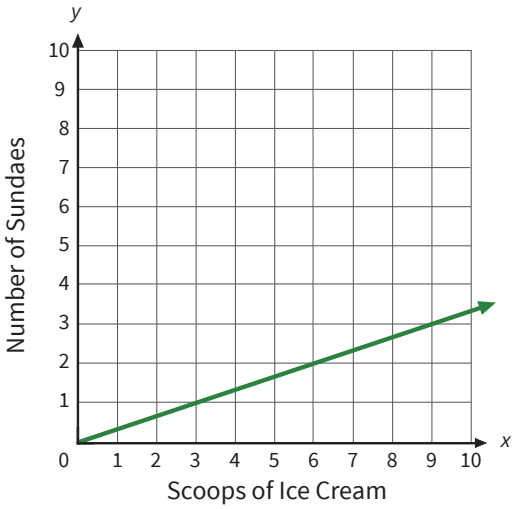
Keep going! Determine the constant of proportionality, k, for each graph below. Write your answer in the box, and simplify any fractions.

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.



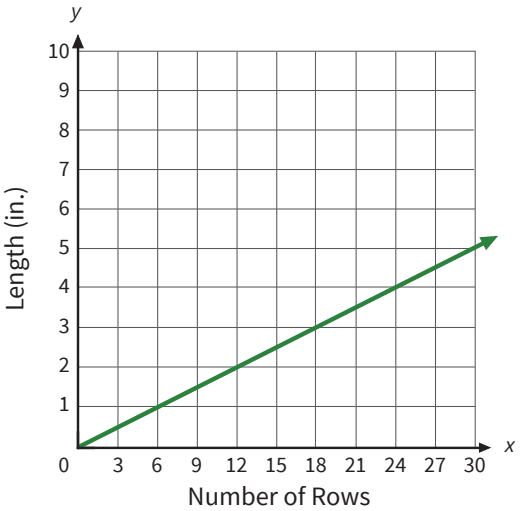
k =

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.



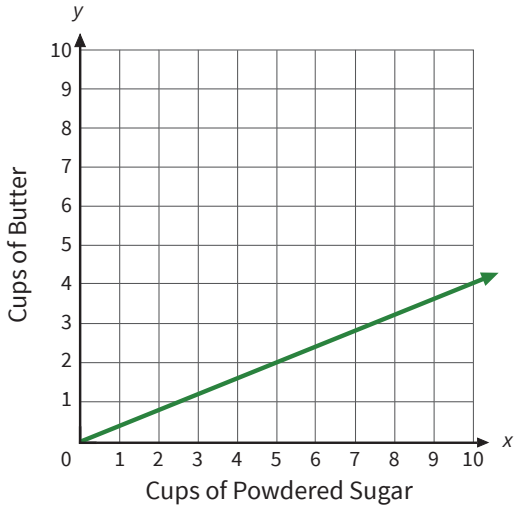
k =

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 =

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 =