Name: _____

Constant of Proportionality B

Find the constant of proportionality k. Write an equation in the form y = kx when asked.

1. y is proportional to x. When x = 4, y = 28. Find the constant of proportionality k and write the equation.

   Answer: _____

2. 2 cups of flour make 4 batches of muffins. What is the constant of proportionality?

   Answer: _____

3. y is proportional to x. When x = 3, y = 21. Find the constant of proportionality k and write the equation.

   Answer: _____

4. y is proportional to x. When x = 8, y = 96. Find the constant of proportionality k and write the equation.

   Answer: _____

5. y is proportional to x. When x = 12, y = 3. Find the constant of proportionality k and write the equation.

   Answer: _____

6. A car uses 32 gallons of gas in 4 hours. What is the constant of proportionality?

   Answer: _____

7. A car uses 44 gallons of gas in 11 hours. What is the constant of proportionality?

   Answer: _____

8. y is proportional to x. When x = 5, y = 20. Find the constant of proportionality k and write the equation.

   Answer: _____

9. A car uses 9 gallons of gas in 3 hours. What is the constant of proportionality?

   Answer: _____

10. A printer prints 18 pages in 9 minutes. What is the constant of proportionality?

    Answer: _____

11. y is proportional to x. When x = 3, y = 36. Find the constant of proportionality k and write the equation.

    Answer: _____

12. 180 cups of flour make 12 batches of muffins. What is the constant of proportionality?

    Answer: _____

Name: **ANSWER KEY**

Constant of Proportionality B

Find the constant of proportionality k. Write an equation in the form y = kx when asked.

1. y is proportional to x. When x = 4, y = 28. Find the constant of proportionality k and write the equation.

   Answer: k = 7, y = 7x

2. 2 cups of flour make 4 batches of muffins. What is the constant of proportionality?

   Answer: $\frac{1}{2}$ cups per batch

3. y is proportional to x. When x = 3, y = 21. Find the constant of proportionality k and write the equation.

   Answer: k = 7, y = 7x

4. y is proportional to x. When x = 8, y = 96. Find the constant of proportionality k and write the equation.

   Answer: k = 12, y = 12x

5. y is proportional to x. When x = 12, y = 3. Find the constant of proportionality k and write the equation.

   Answer: $k = \frac{1}{4}$, $y = \frac{1}{4}x$

6. A car uses 32 gallons of gas in 4 hours. What is the constant of proportionality?

   Answer: 8 gallons per hour

7. A car uses 44 gallons of gas in 11 hours. What is the constant of proportionality?

   Answer: 4 gallons per hour

8. y is proportional to x. When x = 5, y = 20. Find the constant of proportionality k and write the equation.

   Answer: k = 4, y = 4x

9. A car uses 9 gallons of gas in 3 hours. What is the constant of proportionality?

   Answer: 3 gallons per hour

10. A printer prints 18 pages in 9 minutes. What is the constant of proportionality?

    Answer: 2 pages per minute

11. y is proportional to x. When x = 3, y = 36. Find the constant of proportionality k and write the equation.

    Answer: k = 12, y = 12x

12. 180 cups of flour make 12 batches of muffins. What is the constant of proportionality?

    Answer: 15 cups per batch