Name: _____

Constant of Proportionality A

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

1. y is proportional to x. When x = 2, y = 8. Find the constant of proportionality k and write the equation.

   Answer: _____

2. 30 cups of flour make 6 batches of muffins. What is the constant of proportionality?

   Answer: _____

3. A car uses 24 gallons of gas in 3 hours. What is the constant of proportionality?

   Answer: _____

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

   Answer: _____

5. y is proportional to x. When x = 4, y = 36. Find the constant of proportionality k and write the equation.

   Answer: _____

6. 1 cups of flour make 2 batches of muffins. What is the constant of proportionality?

   Answer: _____

7. A printer prints 64 pages in 8 minutes. What is the constant of proportionality?

   Answer: _____

8. Mia earns $33 for 11 hours of babysitting. What is the constant of proportionality?

   Answer: _____

9. y is proportional to x. When x = 7, y = 21. Find the constant of proportionality k and write the equation.

   Answer: _____

10. 27 cups of flour make 3 batches of muffins. What is the constant of proportionality?

    Answer: _____

11. y is proportional to x. When x = 7, y = 84. Find the constant of proportionality k and write the equation.

    Answer: _____

12. A printer prints 22 pages in 11 minutes. What is the constant of proportionality?

    Answer: _____

Name: **ANSWER KEY**

Constant of Proportionality A

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

1. y is proportional to x. When x = 2, y = 8. Find the constant of proportionality k and write the equation.

   Answer: k = 4, y = 4x

2. 30 cups of flour make 6 batches of muffins. What is the constant of proportionality?

   Answer: 5 cups per batch

3. A car uses 24 gallons of gas in 3 hours. What is the constant of proportionality?

   Answer: 8 gallons per hour

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

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

5. y is proportional to x. When x = 4, y = 36. Find the constant of proportionality k and write the equation.

   Answer: k = 9, y = 9x

6. 1 cups of flour make 2 batches of muffins. What is the constant of proportionality?

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

7. A printer prints 64 pages in 8 minutes. What is the constant of proportionality?

   Answer: 8 pages per minute

8. Mia earns $33 for 11 hours of babysitting. What is the constant of proportionality?

   Answer: 3 dollars per hour

9. y is proportional to x. When x = 7, y = 21. Find the constant of proportionality k and write the equation.

   Answer: k = 3, y = 3x

10. 27 cups of flour make 3 batches of muffins. What is the constant of proportionality?

    Answer: 9 cups per batch

11. y is proportional to x. When x = 7, y = 84. Find the constant of proportionality k and write the equation.

    Answer: k = 12, y = 12x

12. A printer prints 22 pages in 11 minutes. What is the constant of proportionality?

    Answer: 2 pages per minute