

Name: _____

Date: _____

Proportional: $y = kx$ - straight through the origin. $k = y/x$ is constant. Last two are challenge problems!

1. $y = 4x$. Find y when $x = 6$.

show your work

2. Table: $x = 1, 2, 3$ with $y = 5, 10, 15$.
Find k .

show your work

3. Is $y = 3x + 2$ proportional?

show your work

4. 3 pounds of apples cost \$7.50.
Cost per pound?

show your work

5. $y = kx$ passes through (4, 10). Find k .

show your work

6. If 5 tickets cost \$60, what do 8 cost?

show your work

7. Table: $x = 2, 4, 6$ with $y = 3, 6, 9$.
Write the equation.

show your work

8. A recipe uses 2 cups flour per 3 dozen cookies. Flour for 9 dozen?

show your work

9. Which is proportional: (A) $y = x/5$ ★ CHALLENGE
(B) $y = 5/x$ (C) $y = x + 5$? Explain.

show your work

10. y is proportional to x , and $y = 18$ ★ CHALLENGE
when $x = 4$. Find y when $x = 10$.

show your work