

7.4 Practice A

Write a formula for the given measure. Tell what each variable represents. Identify which variable depends on which in the formula.

1. The perimeter of a rectangle with a length of 4 meters
2. The area of a triangle with base length of 10 feet

Tell whether the ordered pair is a solution of the equation.

3. $y = x$; (2, 3)
4. $y = 8x$; (0, 0)
5. $y = 3x - 2$; (1, 1)
6. $y = 4x + 1$; (1, 5)

Identify the independent and dependent variables.

7. The equation $P = 2\ell + 20$ gives the perimeter P (in inches) of a rectangular box with a length of ℓ feet.
8. The equation $k = 88p$ gives the total number of keys k for p pianos.
9. You are hosting a party. You are providing 3 food items. Each guest brings 2 food items.
 - a. Write an equation in two variables that represents the total number of food items.
 - b. Identify the independent and dependent variables.
10. Your choir has 300 tickets to sell. You are responsible for distributing 10 tickets to each choir member to sell.
 - a. Write an equation in two variables that represents the remaining number of tickets to distribute.
 - b. Identify the independent and dependent variables.

Fill in the blank so that the ordered pair is a solution of the equation.

11. $y = 7x - 5$; (2,)
12. $y = 15 - 3x$; (, 6)
13. Write an equation in two variables that has (1, 3) as a solution.
14. Write another equation in two variables that also has (1, 3) as a solution.