Solve each problem.

Ex) Every yard is 3 feet. Write an equation to express the total number of feet (Z) in (y) yards.

- 1) Every gallon is 4 quarts. Write an equation to express the total number of quarts (Z) in (y) gallons.
- 2) Every meter is 100 centimeters. Write an equation to express the total number of centimeters (Z) in (y) meters.
- 3) Every dollar is 4 quarters. Write an equation to express the total number of quarters (Z) in (y) dollars.
- 4) Every pint is 2 cups. Write an equation to express the total number of cups (Z) in (y) pints.
- 5) Every quarter is 25 pennies. Write an equation to express the total number of pennies (Z) in (y) quarters.
- 6) Every quart is 2 pints. Write an equation to express the total number of pints (Z) in (y) quarts.
- 7) Every dollar is 10 dimes. Write an equation to express the total number of dimes (Z) in (y) dollars.
- 8) For each pound there are 16 ounces. Write an equation to express the total number of ounces (Z) in (y) pounds.
- 9) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters (Z) in (y) liters.
- 10) Every dollar is 100 pennies. Write an equation to express the total number of pennies (Z) in (y) dollars.
- 11) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters (Z) in (y) centimeters.
- Every quarter is 5 nickels. Write an equation to express the total number of nickels (Z) in (y) quarters.
- 13) Every kilometer is 1,000 meters. Write an equation to express the total number of meters (Z) in (y) kilometers.
- **14)** Every foot is 12 inches. Write an equation to express the total number of inches (Z) in (y) feet.
- 15) For each kilogram there are 1,000 grams. Write an equation to express the total number of grams (Z) in (y) kilograms.

## Answers

Ex. 
$$\mathbf{y} \times \mathbf{3} = \mathbf{Z}$$

- 1. \_\_\_\_\_
- 2.
- 3.
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8.
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12.
- 13. \_\_\_\_\_
- 14. \_\_\_\_\_
- 15. \_\_\_\_\_

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## **Answers**

$$\mathbf{y} \times \mathbf{3} = \mathbf{Z}$$

$$1. \quad \mathbf{y} \times \mathbf{4} = \mathbf{Z}$$

$$\mathbf{y} \times \mathbf{100} = \mathbf{Z}$$

$$\mathbf{y} \times \mathbf{4} = \mathbf{Z}$$

$$\mathbf{y} \times \mathbf{2} = \mathbf{Z}$$

$$5. \quad \mathbf{y} \times \mathbf{25} = \mathbf{Z}$$

$$_{6.} \quad \mathbf{y} \times \mathbf{2} = \mathbf{Z}$$

$$y \times 10 = Z$$

$$y \times 16 = Z$$

9. 
$$y \times 1,000 = Z$$

$$_{10.}$$
  $\mathbf{y} \times \mathbf{100} = \mathbf{Z}$ 

$$y \times 10 = Z$$

$$\mathbf{y} \times \mathbf{5} = \mathbf{Z}$$

$$_{13.}$$
  $\mathbf{y} \times \mathbf{1,000} = \mathbf{Z}$ 

$$_{14.} \underline{y \times 12 = Z}$$

$$_{15.}$$
  $y \times 1,000 = Z$