



## Writing Equations from Ratios

Name: \_\_\_\_\_

Solve each problem.

Ex) Every dollar is 100 pennies. Write an equation to express the total number of pennies (Z) in (y) dollars.

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

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

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**Answers**Ex.  $y \times 100 = Z$ 1.  $y \times 1,000 = Z$ 2.  $y \times 3 = Z$ 3.  $y \times 1,000 = Z$ 4.  $y \times 4 = Z$ 5.  $y \times 2 = Z$ 6.  $y \times 100 = Z$ 7.  $y \times 16 = Z$ 8.  $y \times 5 = Z$ 9.  $y \times 12 = Z$ 10.  $y \times 25 = Z$ 11.  $y \times 10 = Z$ 12.  $y \times 8 = Z$ 13.  $y \times 10 = Z$ 14.  $y \times 4 = Z$ 15.  $y \times 1,000 = Z$