



## Writing Equations from Ratios

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

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 centimeter is 10 millimeters. Write an equation to express the total number of millimeters (Z) in (y) centimeters.

2) Every quarter is 25 pennies. Write an equation to express the total number of pennies (Z) in (y) quarters.

3) Every pint is 2 cups. Write an equation to express the total number of cups (Z) in (y) pints.

4) Every gallon is 4 quarts. Write an equation to express the total number of quarts (Z) in (y) gallons.

5) Every quart is 2 pints. Write an equation to express the total number of pints (Z) in (y) quarts.

6) Every quarter is 5 nickels. Write an equation to express the total number of nickels (Z) in (y) quarters.

7) Every dollar is 4 quarters. Write an equation to express the total number of quarters (Z) in (y) dollars.

8) Every cup is 8 ounces. Write an equation to express the total number of ounces (Z) in (y) cups.

9) Every foot is 12 inches. Write an equation to express the total number of inches (Z) in (y) feet.

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

11) For each pound there are 16 ounces. Write an equation to express the total number of ounces (Z) in (y) pounds.

12) Every meter is 100 centimeters. Write an equation to express the total number of centimeters (Z) in (y) meters.

13) For each kilogram there are 1,000 grams. Write an equation to express the total number of grams (Z) in (y) kilograms.

14) Every dollar is 10 dimes. Write an equation to express the total number of dimes (Z) in (y) dollars.

15) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters (Z) in (y) liters.

**Answers**Ex.  $y \times 3 = Z$ 

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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**Answer Key****Solve each problem.**

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