



## Writing Equations from Ratios

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

Solve each problem.

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

### Answers

Ex.  $y \times 5 = Z$

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

Ex. \_\_\_\_\_

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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**Answers**

Ex.  $y \times 5 = Z$

1.  $y \times 4 = Z$

2.  $y \times 2 = Z$

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

4.  $y \times 100 = Z$

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

6.  $y \times 8 = Z$

7.  $y \times 10 = Z$

8.  $y \times 16 = Z$

9.  $y \times 100 = Z$

10.  $y \times 25 = Z$

11.  $y \times 4 = Z$

12.  $y \times 12 = Z$

13.  $y \times 10 = Z$

14.  $y \times 3 = Z$

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