



Writing Equations from Ratios

Name: _____

Solve each problem.

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

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

AnswersEx. **$y \times 4 = Z$**

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

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