Writing Equations from Ratios

Name:

Solve each problem.

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

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

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

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

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

5) Every kilometer is 1,000 meters. Write an equation to express the total number of meters (Z) in (y) kilometers.

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

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

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

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

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

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

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

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

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

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

Answers

Ex. $y \times 10 = Z$

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

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

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Answers

Ex. $y \times 10 = Z$

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

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