Writing Equations from Ratios

Name:

Solve each problem.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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					

Writing Equations from Ratios Name: **Answer Key**

Solve each problem.

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

Answers

Ex. $y \times 10 = Z$

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

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