Writing Equations from Ratios

Name: _____

Solve each problem.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

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

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Answers:

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

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