Writing Equations from Ratios

Name:

Solve each problem.

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

Ex. $$y \times 100 = Z$$

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

1. _____

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

2. _____

3. _____

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

4. _____

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

5. _____

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

6. _____

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

7. _____

8. _____

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

9. _____

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

10. _____

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

11. _____

12. _____

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

13. _____

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

14. _____

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

15. _____

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

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

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

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

Name:

Solve each problem.

Answers

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

Ex. $y \times 100 = Z$

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

1. $y \times 2 = Z$

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

2. $y \times 10 = Z$

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

3. $y \times 16 = Z$

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

4. $y \times 12 = Z$

5. $y \times 10 = Z$

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

6. $y \times 100 = Z$

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

7. $y \times 25 = Z$

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

8. $y \times 4 = Z$

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

9. $y \times 5 = Z$

10. $y \times 2 = Z$

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

11. $y \times 3 = Z$

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

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

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

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

14. $y \times 4 = Z$

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

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

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

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

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

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