Writing Equations from Ratios

Name:

Solve each problem.

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

Ex. $\underline{\quad y \times 5 = Z \quad}$

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

1. _____

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

2. _____

3. _____

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

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

7. _____

8. _____

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

9. _____

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

10. _____

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

11. _____

12. _____

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

13. _____

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

14. _____

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

15. _____

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

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

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

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

Solve each problem.

Answers

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

Ex. $y \times 5 = Z$

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

1. $y \times 100 = Z$

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

2. $y \times 2 = Z$

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

3. $y \times 3 = Z$

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

5. $y \times 10 = Z$

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

6. $y \times 25 = Z$

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

7. $y \times 10 = Z$

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

8. $y \times 4 = Z$

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

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

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

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

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

11. $y \times 16 = Z$

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

12. $y \times 2 = Z$

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

13. $y \times 100 = Z$

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

14. $y \times 4 = Z$

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

15. $y \times 8 = Z$

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