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

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

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

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

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

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

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

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

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

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

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

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

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

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

Answers

Ex. $y \times 10 = Z$

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

Ex. $y \times 10 = Z$

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

Ex. $y \times 1{,}000 = Z$

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Ex. $y \times 5 = Z$

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

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

Solve each problem.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Answers

Ex. $y \times 1{,}000 = Z$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
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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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10) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters (Z) in (y) centimeters.

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Answers

Ex. $y \times 1{,}000 = Z$

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

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

Solve each problem.

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

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

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

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

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

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

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

Answers

Ex. $y \times 4 = Z$

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					

Solve each problem.

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

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

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

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

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

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

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

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

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

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

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

Answers

Ex. $y \times 4 = Z$

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

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

Solve each problem.

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

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

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

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

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

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

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

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

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

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

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

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

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

Answers

Ex. $y \times 2 = Z$

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					

Solve each problem.

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

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

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

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

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

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

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

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

Answers

Ex. $y \times 2 = Z$

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

1-10	93	87	80	73	67	60	53	47	40	33
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6) Every quart is 2 pints. Write an equation to express the total number of pints (Z) in (y) quarts.

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Answers

Ex. $y \times 16 = Z$

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

Ex. $y \times 16 = Z$

1. $y \times 10 = Z$
2. $y \times 8 = Z$
3. $y \times 4 = Z$
4. $y \times 2 = Z$
5. $y \times 1{,}000 = Z$
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