Using Ratio Equations

Name:

Solve each problem.

Ex) Every quarter is 25 pennies. This can be expressed using the equation y × 25 = Z, where y is equal to the number of quarters and Z is equal to the total number of pennies. Using this equation find the total pennies in 6 quarters.

1) Every quarter is 5 nickels. This can be expressed using the equation y × 5 = Z, where y is equal to the number of quarters and Z is equal to the total number of nickels. Using this equation find the total nickels in 4 quarters.

2) Every quart is 2 pints. This can be expressed using the equation y × 2 = Z, where y is equal to the number of quarts and Z is equal to the total number of pints. Using this equation find the total pints in 2 quarts.

3) Every pint is 2 cups. This can be expressed using the equation y × 2 = Z, where y is equal to the number of pints and Z is equal to the total number of cups. Using this equation find the total cups in 6 pints.

4) Every meter is 100 centimeters. This can be expressed using the equation y × 100 = Z, where y is equal to the number of meters and Z is equal to the total number of centimeters. Using this equation find the total centimeters in 2 meters.

5) Every dollar is 10 dimes. This can be expressed using the equation y × 10 = Z, where y is equal to the number of dollars and Z is equal to the total number of dimes. Using this equation find the total dimes in 7 dollars.

6) Every foot is 12 inches. This can be expressed using the equation y × 12 = Z, where y is equal to the number of feet and Z is equal to the total number of inches. Using this equation find the total inches in 4 feet.

7) For each pound there are 16 ounces. This can be expressed using the equation y × 16 = Z, where y is equal to the number of pounds and Z is equal to the total number of ounces. Using this equation find the total ounces in 6 pounds.

8) Every kilometer is 1,000 meters. This can be expressed using the equation y × 1,000 = Z, where y is equal to the number of kilometers and Z is equal to the total number of meters. Using this equation find the total meters in 7 kilometers.

9) For each kilogram there are 1,000 grams. This can be expressed using the equation y × 1,000 = Z, where y is equal to the number of kilogram and Z is equal to the total number of grams. Using this equation find the total grams in 2 kilograms.

10) Every liter is 1,000 milliliters. This can be expressed using the equation y × 1,000 = Z, where y is equal to the number of liters and Z is equal to the total number of milliliters. Using this equation find the total milliliters in 3 liters.

11) Every gallon is 4 quarts. This can be expressed using the equation y × 4 = Z, where y is equal to the number of gallons and Z is equal to the total number of quarts. Using this equation find the total quarts in 9 gallons.

12) Every dollar is 4 quarters. This can be expressed using the equation y × 4 = Z, where y is equal to the number of dollars and Z is equal to the total number of quarters. Using this equation find the total quarters in 2 dollars.

Answers

Ex. 150

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

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Using Ratio Equations

Name: **Answer Key**

Solve each problem.

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1) Every quarter is 5 nickels. This can be expressed using the equation y × 5 = Z, where y is equal to the number of quarters and Z is equal to the total number of nickels. Using this equation find the total nickels in 4 quarters.

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11) Every gallon is 4 quarts. This can be expressed using the equation y × 4 = Z, where y is equal to the number of gallons and Z is equal to the total number of quarts. Using this equation find the total quarts in 9 gallons.

12) Every dollar is 4 quarters. This can be expressed using the equation y × 4 = Z, where y is equal to the number of dollars and Z is equal to the total number of quarters. Using this equation find the total quarters in 2 dollars.

Answers

Ex.	150
1.	20
2.	4
3.	12
4.	200
5.	70
6.	48
7.	96
8.	7,000
9.	2,000
10.	3,000
11.	36
12.	8

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								