Using Ratio Equations

Name:

Solve each problem.

Ex) 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 6 kilograms.

Ex. **6,000**

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

1. _____

2. _____

2) 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 7 feet.

3. _____

3) 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 9 quarters.

4. _____

5. _____

4) Every dollar is 100 pennies. This can be expressed using the equation y × 100 = Z, where y is equal to the number of dollars and Z is equal to the total number of pennies. Using this equation find the total pennies in 3 dollars.

6. _____

5) 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 3 quarts.

7. _____

8. _____

6) 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 5 dollars.

9. _____

7) 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.

10. _____

11. _____

8) 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 8 liters.

12. _____

9) Every centimeter is 10 millimeters. This can be expressed using the equation y × 10 = Z, where y is equal to the number of centimeters and Z is equal to the total number of millimeters. Using this equation find the total millimeters in 6 centimeters.

10) 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 8 quarters.

11) 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 5 kilometers.

12) 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.

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

Solve each problem.

Answers

Ex) 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 6 kilograms.

Ex. **6,000**

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

1. **56**

2) 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 7 feet.

2. **84**

3) 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 9 quarters.

3. **225**

4) Every dollar is 100 pennies. This can be expressed using the equation y × 100 = Z, where y is equal to the number of dollars and Z is equal to the total number of pennies. Using this equation find the total pennies in 3 dollars.

4. **300**

5) 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 3 quarts.

5. **6**

6) 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 5 dollars.

6. **20**

7) 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.

7. **36**

8) 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 8 liters.

8. **8,000**

9) Every centimeter is 10 millimeters. This can be expressed using the equation y × 10 = Z, where y is equal to the number of centimeters and Z is equal to the total number of millimeters. Using this equation find the total millimeters in 6 centimeters.

9. **60**

10) 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 8 quarters.

10. **40**

11) 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 5 kilometers.

11. **5,000**

12) 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.

12. **200**

Math

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