Using Ratio Equations

Solve each problem.

Answers

Ex) Every quart is 2 pints. This can be expressed using the equation $y \times 2 = Z$, 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 10 quarts.

Ex. **20**

1) Every pint is 2 cups. This can be expressed using the equation $y \times 2 = Z$, 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 3 pints.

1. _____

2) Every gallon is 4 quarts. This can be expressed using the equation $y \times 4 = Z$, 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 2 gallons.

2. _____

3. _____

3) Every dollar is 4 quarters. This can be expressed using the equation $y \times 4 = Z$, 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 4 dollars.

4. _____

5. _____

4) Every dollar is 10 dimes. This can be expressed using the equation $y \times 10 = Z$, 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 5 dollars.

6. _____

5) Every foot is 12 inches. This can be expressed using the equation $y \times 12 = Z$, 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.

7. _____

8. _____

6) Every kilometer is 1,000 meters. This can be expressed using the equation $y \times 1,000 = Z$, 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 10 kilometers.

9. _____

10. _____

7) Every liter is 1,000 milliliters. This can be expressed using the equation $y \times 1,000 = Z$, 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 6 liters.

11. _____

8) Every cup is 8 ounces. This can be expressed using the equation $y \times 8 = Z$, 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 10 cups.

12. _____

9) Every quarter is 25 pennies. This can be expressed using the equation $y \times 25 = Z$, 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.

10) Every quarter is 5 nickels. This can be expressed using the equation $y \times 5 = Z$, 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 3 quarters.

11) Every yard is 3 feet. This can be expressed using the equation $y \times 3 = Z$, where y is equal to the number of yards and Z is equal to the total number of feet. Using this equation find the total feet in 7 yards.

12) For each kilogram there are 1,000 grams. This can be expressed using the equation $y \times 1,000 = Z$, 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 9 kilograms.

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

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Answers

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Ex. ___**20**___

1) Every pint is 2 cups. This can be expressed using the equation $y \times 2 = Z$, 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 3 pints.

1. ___**6**___

2) Every gallon is 4 quarts. This can be expressed using the equation $y \times 4 = Z$, 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 2 gallons.

2. ___**8**___

3) Every dollar is 4 quarters. This can be expressed using the equation $y \times 4 = Z$, 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 4 dollars.

3. ___**16**___

4) Every dollar is 10 dimes. This can be expressed using the equation $y \times 10 = Z$, 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 5 dollars.

4. ___**50**___

5) Every foot is 12 inches. This can be expressed using the equation $y \times 12 = Z$, 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.

5. ___**84**___

6) Every kilometer is 1,000 meters. This can be expressed using the equation $y \times 1,000 = Z$, 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 10 kilometers.

6. ___**10,000**___

7) Every liter is 1,000 milliliters. This can be expressed using the equation $y \times 1,000 = Z$, 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 6 liters.

7. ___**6,000**___

8) Every cup is 8 ounces. This can be expressed using the equation $y \times 8 = Z$, 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 10 cups.

8. ___**80**___

9) Every quarter is 25 pennies. This can be expressed using the equation $y \times 25 = Z$, 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.

9. ___**150**___

10) Every quarter is 5 nickels. This can be expressed using the equation $y \times 5 = Z$, 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 3 quarters.

10. ___**15**___

11) Every yard is 3 feet. This can be expressed using the equation $y \times 3 = Z$, where y is equal to the number of yards and Z is equal to the total number of feet. Using this equation find the total feet in 7 yards.

11. ___**21**___

12) For each kilogram there are 1,000 grams. This can be expressed using the equation $y \times 1,000 = Z$, 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 9 kilograms.

12. ___**9,000**___

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