



**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. \_\_\_\_\_
15. \_\_\_\_\_

**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.
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  - Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters (Z) in (y) centimeters.
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  - Every kilometer is 1,000 meters. Write an equation to express the total number of meters (Z) in (y) kilometers.
  - Every gallon is 4 quarts. Write an equation to express the total number of quarts (Z) in (y) gallons.
  - Every quarter is 5 nickels. Write an equation to express the total number of nickels (Z) in (y) quarters.
  - For each pound there are 16 ounces. Write an equation to express the total number of ounces (Z) in (y) pounds.

**Answers**

- Ex.  $y \times 1,000 = Z$
- $y \times 25 = Z$
  - $y \times 100 = Z$
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  - $y \times 2 = Z$
  - $y \times 12 = Z$
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  - $y \times 3 = Z$
  - $y \times 100 = Z$
  - $y \times 10 = Z$
  - $y \times 10 = Z$
  - $y \times 4 = Z$
  - $y \times 1,000 = Z$
  - $y \times 4 = Z$
  - $y \times 5 = Z$
  - $y \times 16 = Z$