



**Solve each problem.**

- Ex)** Every pint is 2 cups. Write an equation to express the total number of cups ( $Z$ ) in ( $y$ ) pints.
- 1) For each pound there are 16 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) pounds.
  - 2) Every dollar is 10 dimes. Write an equation to express the total number of dimes ( $Z$ ) in ( $y$ ) dollars.
  - 3) Every dollar is 4 quarters. Write an equation to express the total number of quarters ( $Z$ ) in ( $y$ ) dollars.
  - 4) Every foot is 12 inches. Write an equation to express the total number of inches ( $Z$ ) in ( $y$ ) feet.
  - 5) Every meter is 100 centimeters. Write an equation to express the total number of centimeters ( $Z$ ) in ( $y$ ) meters.
  - 6) For each kilogram there are 1,000 grams. Write an equation to express the total number of grams ( $Z$ ) in ( $y$ ) kilograms.
  - 7) Every dollar is 100 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) dollars.
  - 8) Every kilometer is 1,000 meters. Write an equation to express the total number of meters ( $Z$ ) in ( $y$ ) kilometers.
  - 9) Every cup is 8 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) cups.
  - 10) Every quarter is 5 nickels. Write an equation to express the total number of nickels ( $Z$ ) in ( $y$ ) quarters.
  - 11) Every gallon is 4 quarts. Write an equation to express the total number of quarts ( $Z$ ) in ( $y$ ) gallons.
  - 12) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters ( $Z$ ) in ( $y$ ) centimeters.
  - 13) Every quart is 2 pints. Write an equation to express the total number of pints ( $Z$ ) in ( $y$ ) quarts.
  - 14) Every yard is 3 feet. Write an equation to express the total number of feet ( $Z$ ) in ( $y$ ) yards.
  - 15) Every quarter is 25 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) quarters.

**Answers**

- Ex.  $y \times 2 = Z$
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_
  6. \_\_\_\_\_
  7. \_\_\_\_\_
  8. \_\_\_\_\_
  9. \_\_\_\_\_
  10. \_\_\_\_\_
  11. \_\_\_\_\_
  12. \_\_\_\_\_
  13. \_\_\_\_\_
  14. \_\_\_\_\_
  15. \_\_\_\_\_



**Solve each problem.**

- Ex)** Every pint is 2 cups. Write an equation to express the total number of cups (Z) in (y) pints.
- 1) For each pound there are 16 ounces. Write an equation to express the total number of ounces (Z) in (y) pounds.
  - 2) Every dollar is 10 dimes. Write an equation to express the total number of dimes (Z) in (y) dollars.
  - 3) Every dollar is 4 quarters. Write an equation to express the total number of quarters (Z) in (y) dollars.
  - 4) Every foot is 12 inches. Write an equation to express the total number of inches (Z) in (y) feet.
  - 5) Every meter is 100 centimeters. Write an equation to express the total number of centimeters (Z) in (y) meters.
  - 6) For each kilogram there are 1,000 grams. Write an equation to express the total number of grams (Z) in (y) kilograms.
  - 7) Every dollar is 100 pennies. Write an equation to express the total number of pennies (Z) in (y) dollars.
  - 8) Every kilometer is 1,000 meters. Write an equation to express the total number of meters (Z) in (y) kilometers.
  - 9) Every cup is 8 ounces. Write an equation to express the total number of ounces (Z) in (y) cups.
  - 10) Every quarter is 5 nickels. Write an equation to express the total number of nickels (Z) in (y) quarters.
  - 11) Every gallon is 4 quarts. Write an equation to express the total number of quarts (Z) in (y) gallons.
  - 12) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters (Z) in (y) centimeters.
  - 13) Every quart is 2 pints. Write an equation to express the total number of pints (Z) in (y) quarts.
  - 14) Every yard is 3 feet. Write an equation to express the total number of feet (Z) in (y) yards.
  - 15) Every quarter is 25 pennies. Write an equation to express the total number of pennies (Z) in (y) quarters.

**Answers**

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



**Solve each problem.**

- Ex)** Every yard is 3 feet. Write an equation to express the total number of feet ( $Z$ ) in ( $y$ ) yards.
- 1) Every quarter is 25 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) quarters.
  - 2) Every dollar is 4 quarters. Write an equation to express the total number of quarters ( $Z$ ) in ( $y$ ) dollars.
  - 3) Every kilometer is 1,000 meters. Write an equation to express the total number of meters ( $Z$ ) in ( $y$ ) kilometers.
  - 4) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters ( $Z$ ) in ( $y$ ) centimeters.
  - 5) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters ( $Z$ ) in ( $y$ ) liters.
  - 6) For each pound there are 16 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) pounds.
  - 7) Every quart is 2 pints. Write an equation to express the total number of pints ( $Z$ ) in ( $y$ ) quarts.
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  - 10) Every foot is 12 inches. Write an equation to express the total number of inches ( $Z$ ) in ( $y$ ) feet.
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  - 13) Every gallon is 4 quarts. Write an equation to express the total number of quarts ( $Z$ ) in ( $y$ ) gallons.
  - 14) Every dollar is 100 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) dollars.
  - 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.  $y \times 3 = Z$
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_
  6. \_\_\_\_\_
  7. \_\_\_\_\_
  8. \_\_\_\_\_
  9. \_\_\_\_\_
  10. \_\_\_\_\_
  11. \_\_\_\_\_
  12. \_\_\_\_\_
  13. \_\_\_\_\_
  14. \_\_\_\_\_
  15. \_\_\_\_\_



**Solve each problem.**

- Ex)** Every yard is 3 feet. Write an equation to express the total number of feet (Z) in (y) yards.
- 1) Every quarter is 25 pennies. Write an equation to express the total number of pennies (Z) in (y) quarters.
  - 2) Every dollar is 4 quarters. Write an equation to express the total number of quarters (Z) in (y) dollars.
  - 3) Every kilometer is 1,000 meters. Write an equation to express the total number of meters (Z) in (y) kilometers.
  - 4) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters (Z) in (y) centimeters.
  - 5) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters (Z) in (y) liters.
  - 6) For each pound there are 16 ounces. Write an equation to express the total number of ounces (Z) in (y) pounds.
  - 7) Every quart is 2 pints. Write an equation to express the total number of pints (Z) in (y) quarts.
  - 8) Every quarter is 5 nickels. Write an equation to express the total number of nickels (Z) in (y) quarters.
  - 9) Every dollar is 10 dimes. Write an equation to express the total number of dimes (Z) in (y) dollars.
  - 10) Every foot is 12 inches. Write an equation to express the total number of inches (Z) in (y) feet.
  - 11) Every meter is 100 centimeters. Write an equation to express the total number of centimeters (Z) in (y) meters.
  - 12) Every cup is 8 ounces. Write an equation to express the total number of ounces (Z) in (y) cups.
  - 13) Every gallon is 4 quarts. Write an equation to express the total number of quarts (Z) in (y) gallons.
  - 14) Every dollar is 100 pennies. Write an equation to express the total number of pennies (Z) in (y) dollars.
  - 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.  $y \times 3 = Z$
1.  $y \times 25 = Z$
  2.  $y \times 4 = Z$
  3.  $y \times 1,000 = Z$
  4.  $y \times 10 = Z$
  5.  $y \times 1,000 = Z$
  6.  $y \times 16 = Z$
  7.  $y \times 2 = Z$
  8.  $y \times 5 = Z$
  9.  $y \times 10 = Z$
  10.  $y \times 12 = Z$
  11.  $y \times 100 = Z$
  12.  $y \times 8 = Z$
  13.  $y \times 4 = Z$
  14.  $y \times 100 = Z$
  15.  $y \times 1,000 = Z$



**Solve each problem.**

- Ex)** Every pint is 2 cups. Write an equation to express the total number of cups ( $Z$ ) in ( $y$ ) pints.
- 1) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters ( $Z$ ) in ( $y$ ) liters.
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  - 14) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters ( $Z$ ) in ( $y$ ) centimeters.
  - 15) Every quarter is 5 nickels. Write an equation to express the total number of nickels ( $Z$ ) in ( $y$ ) quarters.

**Answers**

- Ex.  $y \times 2 = Z$
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_
  6. \_\_\_\_\_
  7. \_\_\_\_\_
  8. \_\_\_\_\_
  9. \_\_\_\_\_
  10. \_\_\_\_\_
  11. \_\_\_\_\_
  12. \_\_\_\_\_
  13. \_\_\_\_\_
  14. \_\_\_\_\_
  15. \_\_\_\_\_

**Solve each problem.**

- Ex)** Every pint is 2 cups. Write an equation to express the total number of cups ( $Z$ ) in ( $y$ ) pints.
- 1) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters ( $Z$ ) in ( $y$ ) liters.
  - 2) Every dollar is 100 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) dollars.
  - 3) Every quarter is 25 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) quarters.
  - 4) Every quart is 2 pints. Write an equation to express the total number of pints ( $Z$ ) in ( $y$ ) quarts.
  - 5) Every meter is 100 centimeters. Write an equation to express the total number of centimeters ( $Z$ ) in ( $y$ ) meters.
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**Answers**

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



**Solve each problem.**

- Ex)** Every kilometer is 1,000 meters. Write an equation to express the total number of meters ( $Z$ ) in ( $y$ ) kilometers.
- 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 meter is 100 centimeters. Write an equation to express the total number of centimeters ( $Z$ ) in ( $y$ ) meters.
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  - 13) Every quart is 2 pints. Write an equation to express the total number of pints ( $Z$ ) in ( $y$ ) quarts.
  - 14) Every yard is 3 feet. Write an equation to express the total number of feet ( $Z$ ) in ( $y$ ) yards.
  - 15) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters ( $Z$ ) in ( $y$ ) liters.

**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)** Every kilometer is 1,000 meters. Write an equation to express the total number of meters (Z) in (y) kilometers.
- 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 meter is 100 centimeters. Write an equation to express the total number of centimeters (Z) in (y) meters.
  - 4) For each pound there are 16 ounces. Write an equation to express the total number of ounces (Z) in (y) pounds.
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  - 13) Every quart is 2 pints. Write an equation to express the total number of pints (Z) in (y) quarts.
  - 14) Every yard is 3 feet. Write an equation to express the total number of feet (Z) in (y) yards.
  - 15) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters (Z) in (y) liters.

**Answers**

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





**Solve each problem.**

- Ex)** Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters (Z) in (y) liters.
- 1) Every dollar is 100 pennies. Write an equation to express the total number of pennies (Z) in (y) dollars.
  - 2) Every cup is 8 ounces. Write an equation to express the total number of ounces (Z) in (y) cups.
  - 3) Every gallon is 4 quarts. Write an equation to express the total number of quarts (Z) in (y) gallons.
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  - 15) Every yard is 3 feet. Write an equation to express the total number of feet (Z) in (y) yards.

**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)** Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters (Z) in (y) liters.
- 1) Every dollar is 100 pennies. Write an equation to express the total number of pennies (Z) in (y) dollars.
  - 2) Every cup is 8 ounces. Write an equation to express the total number of ounces (Z) in (y) cups.
  - 3) Every gallon is 4 quarts. Write an equation to express the total number of quarts (Z) in (y) gallons.
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  - 15) Every yard is 3 feet. Write an equation to express the total number of feet (Z) in (y) yards.

**Answers**

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



**Solve each problem.**

- Ex)** For each pound there are 16 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) pounds.
- 1) Every gallon is 4 quarts. Write an equation to express the total number of quarts ( $Z$ ) in ( $y$ ) gallons.
  - 2) Every kilometer is 1,000 meters. Write an equation to express the total number of meters ( $Z$ ) in ( $y$ ) kilometers.
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  - 10) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters ( $Z$ ) in ( $y$ ) liters.
  - 11) Every quart is 2 pints. Write an equation to express the total number of pints ( $Z$ ) in ( $y$ ) quarts.
  - 12) Every dollar is 10 dimes. Write an equation to express the total number of dimes ( $Z$ ) in ( $y$ ) dollars.
  - 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 dollar is 4 quarters. Write an equation to express the total number of quarters ( $Z$ ) in ( $y$ ) dollars.
  - 15) Every cup is 8 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) cups.

**Answers**

- Ex.  $y \times 16 = Z$
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_
  6. \_\_\_\_\_
  7. \_\_\_\_\_
  8. \_\_\_\_\_
  9. \_\_\_\_\_
  10. \_\_\_\_\_
  11. \_\_\_\_\_
  12. \_\_\_\_\_
  13. \_\_\_\_\_
  14. \_\_\_\_\_
  15. \_\_\_\_\_

**Solve each problem.**

- Ex)** For each pound there are 16 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) pounds.
- Every gallon is 4 quarts. Write an equation to express the total number of quarts ( $Z$ ) in ( $y$ ) gallons.
  - Every kilometer is 1,000 meters. Write an equation to express the total number of meters ( $Z$ ) in ( $y$ ) kilometers.
  - Every pint is 2 cups. Write an equation to express the total number of cups ( $Z$ ) in ( $y$ ) pints.
  - Every quarter is 25 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) quarters.
  - Every meter is 100 centimeters. Write an equation to express the total number of centimeters ( $Z$ ) in ( $y$ ) meters.
  - Every foot is 12 inches. Write an equation to express the total number of inches ( $Z$ ) in ( $y$ ) feet.
  - Every quarter is 5 nickels. Write an equation to express the total number of nickels ( $Z$ ) in ( $y$ ) quarters.
  - Every dollar is 100 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) dollars.
  - Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters ( $Z$ ) in ( $y$ ) centimeters.
  - Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters ( $Z$ ) in ( $y$ ) liters.
  - Every quart is 2 pints. Write an equation to express the total number of pints ( $Z$ ) in ( $y$ ) quarts.
  - Every dollar is 10 dimes. Write an equation to express the total number of dimes ( $Z$ ) in ( $y$ ) dollars.
  - For each kilogram there are 1,000 grams. Write an equation to express the total number of grams ( $Z$ ) in ( $y$ ) kilograms.
  - Every dollar is 4 quarters. Write an equation to express the total number of quarters ( $Z$ ) in ( $y$ ) dollars.
  - Every cup is 8 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) cups.

**Answers**

- Ex.  $y \times 16 = Z$
- $y \times 4 = Z$
  - $y \times 1,000 = Z$
  - $y \times 2 = Z$
  - $y \times 25 = Z$
  - $y \times 100 = Z$
  - $y \times 12 = Z$
  - $y \times 5 = Z$
  - $y \times 100 = Z$
  - $y \times 10 = Z$
  - $y \times 1,000 = Z$
  - $y \times 2 = Z$
  - $y \times 10 = Z$
  - $y \times 1,000 = Z$
  - $y \times 4 = Z$
  - $y \times 8 = Z$



**Solve each problem.**

- Ex)** Every yard is 3 feet. Write an equation to express the total number of feet (Z) in (y) yards.
- 1) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters (Z) in (y) liters.
  - 2) Every dollar is 4 quarters. Write an equation to express the total number of quarters (Z) in (y) dollars.
  - 3) Every quarter is 5 nickels. Write an equation to express the total number of nickels (Z) in (y) quarters.
  - 4) For each kilogram there are 1,000 grams. Write an equation to express the total number of grams (Z) in (y) kilograms.
  - 5) Every cup is 8 ounces. Write an equation to express the total number of ounces (Z) in (y) cups.
  - 6) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters (Z) in (y) centimeters.
  - 7) Every kilometer is 1,000 meters. Write an equation to express the total number of meters (Z) in (y) kilometers.
  - 8) Every gallon is 4 quarts. Write an equation to express the total number of quarts (Z) in (y) gallons.
  - 9) Every foot is 12 inches. Write an equation to express the total number of inches (Z) in (y) feet.
  - 10) Every quart is 2 pints. Write an equation to express the total number of pints (Z) in (y) quarts.
  - 11) Every dollar is 100 pennies. Write an equation to express the total number of pennies (Z) in (y) dollars.
  - 12) Every quarter is 25 pennies. Write an equation to express the total number of pennies (Z) in (y) quarters.
  - 13) For each pound there are 16 ounces. Write an equation to express the total number of ounces (Z) in (y) pounds.
  - 14) Every pint is 2 cups. Write an equation to express the total number of cups (Z) in (y) pints.
  - 15) Every dollar is 10 dimes. Write an equation to express the total number of dimes (Z) in (y) dollars.

**Answers**

- Ex.  $y \times 3 = Z$
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_
  6. \_\_\_\_\_
  7. \_\_\_\_\_
  8. \_\_\_\_\_
  9. \_\_\_\_\_
  10. \_\_\_\_\_
  11. \_\_\_\_\_
  12. \_\_\_\_\_
  13. \_\_\_\_\_
  14. \_\_\_\_\_
  15. \_\_\_\_\_



**Solve each problem.**

- Ex)** Every yard is 3 feet. Write an equation to express the total number of feet (Z) in (y) yards.
- 1) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters (Z) in (y) liters.
  - 2) Every dollar is 4 quarters. Write an equation to express the total number of quarters (Z) in (y) dollars.
  - 3) Every quarter is 5 nickels. Write an equation to express the total number of nickels (Z) in (y) quarters.
  - 4) For each kilogram there are 1,000 grams. Write an equation to express the total number of grams (Z) in (y) kilograms.
  - 5) Every cup is 8 ounces. Write an equation to express the total number of ounces (Z) in (y) cups.
  - 6) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters (Z) in (y) centimeters.
  - 7) Every kilometer is 1,000 meters. Write an equation to express the total number of meters (Z) in (y) kilometers.
  - 8) Every gallon is 4 quarts. Write an equation to express the total number of quarts (Z) in (y) gallons.
  - 9) Every foot is 12 inches. Write an equation to express the total number of inches (Z) in (y) feet.
  - 10) Every quart is 2 pints. Write an equation to express the total number of pints (Z) in (y) quarts.
  - 11) Every dollar is 100 pennies. Write an equation to express the total number of pennies (Z) in (y) dollars.
  - 12) Every quarter is 25 pennies. Write an equation to express the total number of pennies (Z) in (y) quarters.
  - 13) For each pound there are 16 ounces. Write an equation to express the total number of ounces (Z) in (y) pounds.
  - 14) Every pint is 2 cups. Write an equation to express the total number of cups (Z) in (y) pints.
  - 15) Every dollar is 10 dimes. Write an equation to express the total number of dimes (Z) in (y) dollars.

**Answers**

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



**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 foot is 12 inches. Write an equation to express the total number of inches ( $Z$ ) in ( $y$ ) feet.
  - 2) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters ( $Z$ ) in ( $y$ ) liters.
  - 3) Every quarter is 5 nickels. Write an equation to express the total number of nickels ( $Z$ ) in ( $y$ ) quarters.
  - 4) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters ( $Z$ ) in ( $y$ ) centimeters.
  - 5) Every dollar is 100 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) dollars.
  - 6) For each pound there are 16 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) pounds.
  - 7) Every pint is 2 cups. Write an equation to express the total number of cups ( $Z$ ) in ( $y$ ) pints.
  - 8) Every dollar is 4 quarters. Write an equation to express the total number of quarters ( $Z$ ) in ( $y$ ) dollars.
  - 9) Every meter is 100 centimeters. Write an equation to express the total number of centimeters ( $Z$ ) in ( $y$ ) meters.
  - 10) Every quarter is 25 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) quarters.
  - 11) For each kilogram there are 1,000 grams. Write an equation to express the total number of grams ( $Z$ ) in ( $y$ ) kilograms.
  - 12) Every dollar is 10 dimes. Write an equation to express the total number of dimes ( $Z$ ) in ( $y$ ) dollars.
  - 13) Every cup is 8 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) cups.
  - 14) Every kilometer is 1,000 meters. Write an equation to express the total number of meters ( $Z$ ) in ( $y$ ) kilometers.
  - 15) Every gallon is 4 quarts. Write an equation to express the total number of quarts ( $Z$ ) in ( $y$ ) gallons.

**Answers**

- Ex.  $y \times 2 = Z$
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_
  6. \_\_\_\_\_
  7. \_\_\_\_\_
  8. \_\_\_\_\_
  9. \_\_\_\_\_
  10. \_\_\_\_\_
  11. \_\_\_\_\_
  12. \_\_\_\_\_
  13. \_\_\_\_\_
  14. \_\_\_\_\_
  15. \_\_\_\_\_

**Solve each problem.**

- Ex)** Every quart is 2 pints. Write an equation to express the total number of pints ( $Z$ ) in ( $y$ ) quarts.
- Every foot is 12 inches. Write an equation to express the total number of inches ( $Z$ ) in ( $y$ ) feet.
  - Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters ( $Z$ ) in ( $y$ ) liters.
  - Every quarter is 5 nickels. Write an equation to express the total number of nickels ( $Z$ ) in ( $y$ ) quarters.
  - Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters ( $Z$ ) in ( $y$ ) centimeters.
  - Every dollar is 100 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) dollars.
  - For each pound there are 16 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) pounds.
  - Every pint is 2 cups. Write an equation to express the total number of cups ( $Z$ ) in ( $y$ ) pints.
  - Every dollar is 4 quarters. Write an equation to express the total number of quarters ( $Z$ ) in ( $y$ ) dollars.
  - Every meter is 100 centimeters. Write an equation to express the total number of centimeters ( $Z$ ) in ( $y$ ) meters.
  - Every quarter is 25 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) quarters.
  - For each kilogram there are 1,000 grams. Write an equation to express the total number of grams ( $Z$ ) in ( $y$ ) kilograms.
  - Every dollar is 10 dimes. Write an equation to express the total number of dimes ( $Z$ ) in ( $y$ ) dollars.
  - Every cup is 8 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) cups.
  - 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.

**Answers**

- Ex.  $y \times 2 = Z$
- $y \times 12 = Z$
  - $y \times 1,000 = Z$
  - $y \times 5 = Z$
  - $y \times 10 = Z$
  - $y \times 100 = Z$
  - $y \times 16 = Z$
  - $y \times 2 = Z$
  - $y \times 4 = Z$
  - $y \times 100 = Z$
  - $y \times 25 = Z$
  - $y \times 1,000 = Z$
  - $y \times 10 = Z$
  - $y \times 8 = Z$
  - $y \times 1,000 = Z$
  - $y \times 4 = Z$





**Solve each problem.**

- Ex)** Every quarter is 5 nickels. Write an equation to express the total number of nickels ( $Z$ ) in ( $y$ ) quarters.
- 1) Every dollar is 10 dimes. Write an equation to express the total number of dimes ( $Z$ ) in ( $y$ ) dollars.
  - 2) Every dollar is 4 quarters. Write an equation to express the total number of quarters ( $Z$ ) in ( $y$ ) dollars.
  - 3) Every foot is 12 inches. Write an equation to express the total number of inches ( $Z$ ) in ( $y$ ) feet.
  - 4) Every quart is 2 pints. Write an equation to express the total number of pints ( $Z$ ) in ( $y$ ) quarts.
  - 5) For each pound there are 16 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) pounds.
  - 6) Every meter is 100 centimeters. Write an equation to express the total number of centimeters ( $Z$ ) in ( $y$ ) meters.
  - 7) Every pint is 2 cups. Write an equation to express the total number of cups ( $Z$ ) in ( $y$ ) pints.
  - 8) Every cup is 8 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) cups.
  - 9) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters ( $Z$ ) in ( $y$ ) liters.
  - 10) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters ( $Z$ ) in ( $y$ ) centimeters.
  - 11) Every quarter is 25 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) quarters.
  - 12) Every gallon is 4 quarts. Write an equation to express the total number of quarts ( $Z$ ) in ( $y$ ) gallons.
  - 13) Every dollar is 100 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) dollars.
  - 14) For each kilogram there are 1,000 grams. Write an equation to express the total number of grams ( $Z$ ) in ( $y$ ) kilograms.
  - 15) Every kilometer is 1,000 meters. Write an equation to express the total number of meters ( $Z$ ) in ( $y$ ) kilometers.

**Answers**

- Ex.  $y \times 5 = Z$
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_
  6. \_\_\_\_\_
  7. \_\_\_\_\_
  8. \_\_\_\_\_
  9. \_\_\_\_\_
  10. \_\_\_\_\_
  11. \_\_\_\_\_
  12. \_\_\_\_\_
  13. \_\_\_\_\_
  14. \_\_\_\_\_
  15. \_\_\_\_\_

**Solve each problem.**

- Ex)** Every quarter is 5 nickels. Write an equation to express the total number of nickels ( $Z$ ) in ( $y$ ) quarters.
- 1) Every dollar is 10 dimes. Write an equation to express the total number of dimes ( $Z$ ) in ( $y$ ) dollars.
  - 2) Every dollar is 4 quarters. Write an equation to express the total number of quarters ( $Z$ ) in ( $y$ ) dollars.
  - 3) Every foot is 12 inches. Write an equation to express the total number of inches ( $Z$ ) in ( $y$ ) feet.
  - 4) Every quart is 2 pints. Write an equation to express the total number of pints ( $Z$ ) in ( $y$ ) quarts.
  - 5) For each pound there are 16 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) pounds.
  - 6) Every meter is 100 centimeters. Write an equation to express the total number of centimeters ( $Z$ ) in ( $y$ ) meters.
  - 7) Every pint is 2 cups. Write an equation to express the total number of cups ( $Z$ ) in ( $y$ ) pints.
  - 8) Every cup is 8 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) cups.
  - 9) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters ( $Z$ ) in ( $y$ ) liters.
  - 10) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters ( $Z$ ) in ( $y$ ) centimeters.
  - 11) Every quarter is 25 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) quarters.
  - 12) Every gallon is 4 quarts. Write an equation to express the total number of quarts ( $Z$ ) in ( $y$ ) gallons.
  - 13) Every dollar is 100 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) dollars.
  - 14) For each kilogram there are 1,000 grams. Write an equation to express the total number of grams ( $Z$ ) in ( $y$ ) kilograms.
  - 15) Every kilometer is 1,000 meters. Write an equation to express the total number of meters ( $Z$ ) in ( $y$ ) kilometers.

**Answers**

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



**Solve each problem.**

- Ex)** Every kilometer is 1,000 meters. Write an equation to express the total number of meters ( $Z$ ) in ( $y$ ) kilometers.
- 1) For each pound there are 16 ounces. Write an equation to express the total number of ounces ( $Z$ ) in ( $y$ ) pounds.
  - 2) Every quart is 2 pints. Write an equation to express the total number of pints ( $Z$ ) in ( $y$ ) quarts.
  - 3) Every dollar is 10 dimes. Write an equation to express the total number of dimes ( $Z$ ) in ( $y$ ) dollars.
  - 4) Every quarter is 5 nickels. Write an equation to express the total number of nickels ( $Z$ ) in ( $y$ ) quarters.
  - 5) Every meter is 100 centimeters. Write an equation to express the total number of centimeters ( $Z$ ) in ( $y$ ) meters.
  - 6) Every gallon is 4 quarts. Write an equation to express the total number of quarts ( $Z$ ) in ( $y$ ) gallons.
  - 7) Every pint is 2 cups. Write an equation to express the total number of cups ( $Z$ ) in ( $y$ ) pints.
  - 8) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters ( $Z$ ) in ( $y$ ) liters.
  - 9) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters ( $Z$ ) in ( $y$ ) centimeters.
  - 10) Every quarter is 25 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) quarters.
  - 11) Every dollar is 4 quarters. Write an equation to express the total number of quarters ( $Z$ ) in ( $y$ ) dollars.
  - 12) For each kilogram there are 1,000 grams. Write an equation to express the total number of grams ( $Z$ ) in ( $y$ ) kilograms.
  - 13) Every dollar is 100 pennies. Write an equation to express the total number of pennies ( $Z$ ) in ( $y$ ) dollars.
  - 14) Every yard is 3 feet. Write an equation to express the total number of feet ( $Z$ ) in ( $y$ ) yards.
  - 15) Every foot is 12 inches. Write an equation to express the total number of inches ( $Z$ ) in ( $y$ ) feet.

**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)** Every kilometer is 1,000 meters. Write an equation to express the total number of meters (Z) in (y) kilometers.
- 1) For each pound there are 16 ounces. Write an equation to express the total number of ounces (Z) in (y) pounds.
  - 2) Every quart is 2 pints. Write an equation to express the total number of pints (Z) in (y) quarts.
  - 3) Every dollar is 10 dimes. Write an equation to express the total number of dimes (Z) in (y) dollars.
  - 4) Every quarter is 5 nickels. Write an equation to express the total number of nickels (Z) in (y) quarters.
  - 5) Every meter is 100 centimeters. Write an equation to express the total number of centimeters (Z) in (y) meters.
  - 6) Every gallon is 4 quarts. Write an equation to express the total number of quarts (Z) in (y) gallons.
  - 7) Every pint is 2 cups. Write an equation to express the total number of cups (Z) in (y) pints.
  - 8) Every liter is 1,000 milliliters. Write an equation to express the total number of milliliters (Z) in (y) liters.
  - 9) Every centimeter is 10 millimeters. Write an equation to express the total number of millimeters (Z) in (y) centimeters.
  - 10) Every quarter is 25 pennies. Write an equation to express the total number of pennies (Z) in (y) quarters.
  - 11) Every dollar is 4 quarters. Write an equation to express the total number of quarters (Z) in (y) dollars.
  - 12) For each kilogram there are 1,000 grams. Write an equation to express the total number of grams (Z) in (y) kilograms.
  - 13) Every dollar is 100 pennies. Write an equation to express the total number of pennies (Z) in (y) dollars.
  - 14) Every yard is 3 feet. Write an equation to express the total number of feet (Z) in (y) yards.
  - 15) Every foot is 12 inches. Write an equation to express the total number of inches (Z) in (y) feet.

**Answers**

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