

# Converting Measurement Units

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_ / 24

## Q Quick Review

You can **convert measurement units** by multiplying or dividing using a known relationship. Useful facts: 1 foot = 12 inches, 1 yard = 3 feet, 1 pound = 16 ounces, 1 gallon = 4 quarts, 1 hour = 60 minutes, 1 kilometer = 1000 meters, 1 meter = 100 centimeters, 1 liter = 1000 milliliters. To go from a **bigger unit to a smaller one**, multiply (there will be more of them). To go from a **smaller unit to a bigger one**, divide.

◇ **Example:** Convert 3 feet to inches.

⇒ We are going from a bigger unit (feet) to a smaller unit (inches), so we expect a larger number and we multiply. The relationship is 1 foot = 12 inches. Multiply the number of feet by 12:  $3 \times 12 = 36$ . So 3 feet equals 36 inches. It makes sense that there are more inches than feet, since inches are smaller.

**Answer:** 36 inches

## PRACTICE

Convert each measurement.

- |                  |       |                     |       |
|------------------|-------|---------------------|-------|
| 1. 3 ft = □ in   | _____ | 11. 7 days = □ h    | _____ |
| 2. 2.5 km = □ m  | _____ | 12. 3 m = □ cm      | _____ |
| 3. 48 in = □ ft  | _____ | 13. 10 qt = □ gal   | _____ |
| 4. 5000 m = □ km | _____ | 14. 1.5 ft = □ in   | _____ |
| 5. 3 lb = □ oz   | _____ | 15. 5 km = □ m      | _____ |
| 6. 2 gal = □ qt  | _____ | 16. 6 ft = □ yd     | _____ |
| 7. 180 min = □ h | _____ | 17. 2 h = □ min     | _____ |
| 8. 4 yd = □ ft   | _____ | 18. 64 oz = □ lb    | _____ |
| 9. 2.5 L = □ mL  | _____ | 19. 8 pt = □ qt     | _____ |
| 10. 96 oz = □ lb | _____ | 20. 2000 lb = □ ton | _____ |

### ◆ Word Problems

21. A ribbon is 4 yards long. How many feet of ribbon is that? \_\_\_\_\_
22. A water bottle holds 2.5 liters. How many milliliters does it hold? \_\_\_\_\_
23. A bag of dog food weighs 96 ounces. How many pounds does it weigh? \_\_\_\_\_
24. A car trip lasts 180 minutes. How many hours long is the trip? \_\_\_\_\_



## Answer Keys

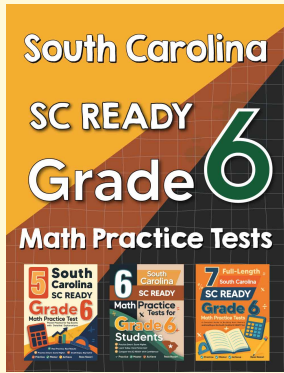
- |                                      |   |
|--------------------------------------|---|
| 1. <input type="text" value="36"/>   | 13. <input type="text" value="2.5"/>              |
| 2. <input type="text" value="2500"/> | 14. <input type="text" value="18"/>               |
| 3. <input type="text" value="4"/>    | 15. <input type="text" value="5000"/>             |
| 4. <input type="text" value="5"/>    | 16. <input type="text" value="2"/>                |
| 5. <input type="text" value="48"/>   | 17. <input type="text" value="120"/>              |
| 6. <input type="text" value="8"/>    | 18. <input type="text" value="4"/>                |
| 7. <input type="text" value="3"/>    | 19. <input type="text" value="4"/>                |
| 8. <input type="text" value="12"/>   | 20. <input type="text" value="1"/>                |
| 9. <input type="text" value="2500"/> | 21. <input type="text" value="12 feet"/>          |
| 10. <input type="text" value="6"/>   | 22. <input type="text" value="2500 milliliters"/> |
| 11. <input type="text" value="168"/> | 23. <input type="text" value="6 pounds"/>         |
| 12. <input type="text" value="300"/> | 24. <input type="text" value="3 hours"/>          |

### Step-by-Step Explanations

- |  |   |
|--|---|
| <p>1. Multiply by 12: <math>3 \times 12 = 36</math> inches.</p> <p>2. Multiply by 1000: <math>2.5 \times 1000 = 2500</math> meters.</p> <p>3. Divide by 12: <math>48 \div 12 = 4</math> feet.</p> <p>4. Divide by 1000: <math>5000 \div 1000 = 5</math> kilometers.</p> <p>5. Multiply by 16: <math>3 \times 16 = 48</math> ounces.</p> <p>6. Multiply by 4: <math>2 \times 4 = 8</math> quarts.</p> <p>7. Divide by 60: <math>180 \div 60 = 3</math> hours.</p> <p>8. Multiply by 3: <math>4 \times 3 = 12</math> feet.</p> <p>9. Multiply by 1000: <math>2.5 \times 1000 = 2500</math> milliliters.</p> <p>10. Divide by 16: <math>96 \div 16 = 6</math> pounds.</p> <p>11. Multiply by 24: <math>7 \times 24 = 168</math> hours.</p> <p>12. Multiply by 100: <math>3 \times 100 = 300</math> centimeters.</p> | <p>13. Divide by 4: <math>10 \div 4 = 2.5</math> gallons.</p> <p>14. Multiply by 12: <math>1.5 \times 12 = 18</math> inches.</p> <p>15. Multiply by 1000: <math>5 \times 1000 = 5000</math> meters.</p> <p>16. Divide by 3: <math>6 \div 3 = 2</math> yards.</p> <p>17. Multiply by 60: <math>2 \times 60 = 120</math> minutes.</p> <p>18. Divide by 16: <math>64 \div 16 = 4</math> pounds.</p> <p>19. There are 2 pints in a quart, so <math>8 \div 2 = 4</math> quarts.</p> <p>20. There are 2000 pounds in a ton, so <math>2000 \div 2000 = 1</math> ton.</p> <p>21. Yards to feet means multiplying by 3: <math>4 \times 3 = 12</math> feet.</p> <p>22. Liters to milliliters means multiplying by 1000: <math>2.5 \times 1000 = 2500</math> mL.</p> <p>23. Ounces to pounds means dividing by 16: <math>96 \div 16 = 6</math> pounds.</p> <p>24. Minutes to hours means dividing by 60: <math>180 \div 60 = 3</math> hours.</p> |
|--|---|



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