

Metric Imperial Conversions

Convert 7 gallons to liters

$$1 \text{ gallon} = 4.546 \text{ liters}$$

By Comparing Gallons to Liters

$$7:1 = x:4.546$$

Create a Fractional Equation

$$\frac{7}{1} = \frac{x}{4.546}$$

Cross Multiply to Solve

$$1x = 7(4.546)$$

$$x = 31.8 \text{ Liters}$$

Convert 9.5 pounds to kilograms

$$2.2 \text{ pounds} = 1 \text{ kilogram}$$

By Comparing Gallons to Liters

$$9.5:2.2 = x:1$$

Create a Fractional Equation

$$\frac{9.5}{2.2} = \frac{x}{1}$$

Cross Multiply to Solve

$$2.2x = 1(9.5)$$

$$x = 9.5 \div 2.2 = 4.3 \text{ Kilograms}$$

Convert 11 centimeters to inches

$$2.54 \text{ centimeter} = 1 \text{ inch}$$

By Comparing Centimeters to Inches

$$11:2.54 = x:1$$

Create a Fractional Equation

$$\frac{11}{2.54} = \frac{x}{1}$$

Cross Multiply to Solve

$$2.54x = 11(1)$$

$$x = 11/2.54 = 4.3 \text{ Centimeters}$$

1. Convert 10 miles to Kilometers

$$1 \text{ mile} = 1.609 \text{ km}$$

_____ kilometers

2. Convert 12 meters to yards

$$1 \text{ yard} = 0.9144 \text{ m}$$

_____ yards

3. Convert 3 ounces to milliliters

$$1 \text{ ounce} = 29.57 \text{ ml}$$

_____ milliliters

4. Convert 7 liters to quarts

$$1 \text{ quart} = 0.9464 \text{ liters}$$

_____ quarts

5. Convert 25 ounces to milligrams

$$1 \text{ ounce} = 28,349.5 \text{ mg}$$

_____ milligrams

6. Convert 0.6 kilograms to pounds

$$1 \text{ pound} = 0.4536 \text{ kg}$$

_____ pounds

7. Convert 44 centimeters to feet

$$1 \text{ foot} = 30.48 \text{ cm}$$

_____ feet

8. Convert 5.7 yards to meters

$$1 \text{ yard} = 0.9144 \text{ m}$$

_____ meters

9. Convert 9.8 grams to ounces

$$1 \text{ ounce} = 28.35 \text{ g}$$

_____ ounces

10. Convert 13 cups to liters

$$1 \text{ cup} = 0.2366 \text{ liters}$$

_____ liters