

Metric Units

Length
1 meter (m) = 1000 millimeters (mm)
1 meter (m) = 100 centimeters (cm)
1 meter (m) = 10 decimeters (dm)
10 meters (m) = 1 decameter (dam)
100 meters (m) = 1 hectometer (hm)
1000 meters (m) = 1 kilometer (km)

Volume
1 liter (L) = 1000 milliliters (mL)
1 liter (L) = 100 centiliters (cL)
1 liter (L) = 10 deciliter (dL)
10 liter (L) = 1 decaliter (daL)
100 liter (L) = 1 hectoliter (hL)
1000 liters (L) = 1 kiloliter (kL)

Weight
1 gram (g) = 1000 milligrams (mg)
1 gram (g) = 100 centigrams (cg)
1 gram (g) = 10 decigram (dg)
10 grams (g) = 1 decagram (dag)
100 grams (g) = 1 hectogram (hg)
1000 grams (g) = 1 kilogram (kg)

Metric/U.S. Conversions (Approximations)

Length

1 in = 2.54 cm

1 m = 3.28 ft

Weight

1 oz = 28.35 g

1 lb = 454 g

1 kg = 2.2 lb

Capacity

1 L = 1.06 qt

1 gal = 3.79 L

U.S. Units

Length
1 foot (ft) = 12 inches (in)
1 yard (yd) = 3 feet (ft)
1 mile (mi) = 5280 feet (ft)

Volume
1 quart (qt) = 4 cups (c)
1 quart (qt) = 2 pints (pt)
1 gallon (gal) = 4 quarts (qt)
1 cup (c) = 8 fluid ounces (fl oz)
1 pint (pt) = 2 cup (c)

Weight
1 pound (lb) = 16 ounces (oz)
1 ton (T) = 2,000 pounds (lb)

Time
1 minute (min) = 60 seconds(s)
1 hour (hr) = 60 minutes (min)

Math 0404 – Unit Conversions

1. Convert 42 yd to ft.
2. Convert 15,840 feet to miles
3. Convert 4.3 cups to fluid ounces.
4. Convert $150 \frac{ft}{s}$ to $\frac{mi}{h}$.
5. Convert 800 milliliters to liters.
6. Convert 1.6 kg to g.
7. Convert 250 centimeters to meters.
8. Convert 2.4 g to mg.
9. How many ounces are in 3.25 lb?
10. How many feet are in $1\frac{1}{4}$ mi?

SOLUTIONS

1. 126 ft.

2. 3 miles

3. 34.4 fluid ounces.

4. $102\frac{3}{11} \text{ mi/h}$.

5. 0.8 liters.

6. 1600 g.

7. 2.5 meters.

8. 2400 mg.

9. 52 ounces

10. 6600feet