

## Unit (abbreviation)

## Conversion

### Weight

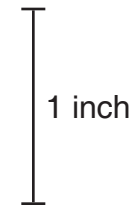
ounce (oz)  
pound (lb)  
ton

1 lb = 16 oz  
1 ton = 2,000 lb

### Length

inch (in)  
foot (ft)  
yard (yd)  
mile (mi)

1 ft = 12 in  
1 yd = 3 ft  
1 mi = 5,280 ft



### Volume

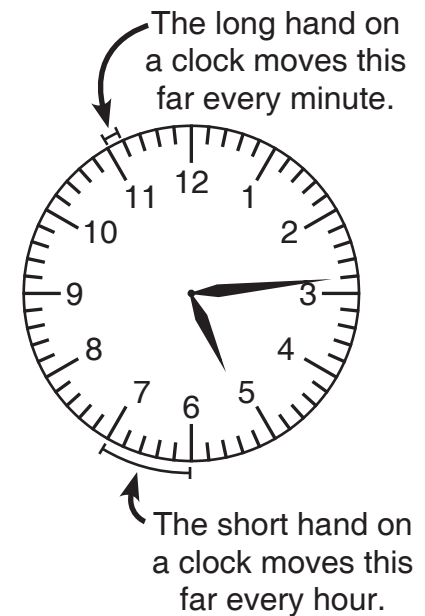
fluid ounce (fl oz)  
cup (c)  
pint (pt)  
quart (qt)  
gallon (gal)

1 c = 8 fl oz  
1 pt = 2 c  
1 qt = 2 pt  
1 gal = 4 qt

### Time

second (sec)  
minute (min)  
hour (hr)  
day  
week  
month  
decade  
century  
millennium

1 min = 60 sec  
1 hr = 60 min  
1 day = 24 hr  
1 week = 7 days  
1 month has 28-31 days  
1 decade = 10 years  
1 century = 100 years  
1 millennium = 1,000 years



### Temperature

degree Fahrenheit (°F)  
Water freezes: 32 °F  
Water boils: 212 °F

# The Metric System

Guide and Practice 3C: Chapter 9

The metric system uses prefixes.

**kilo** means  $\times 1,000$

For example, there are 1,000 meters in 1 **kilometer**.

**centi** means  $\div 100$

1 meter can be divided into 100 **centimeters**.

**milli** means  $\div 1,000$

1 liter can be divided into 1,000 **milliliters**.

## Common Units (abbreviation)

### Weight

gram (g)

kilogram (kg)

$$1 \text{ kg} = 1,000 \text{ g}$$

### Length

centimeter (cm)

meter (m)

kilometer (km)

$$100 \text{ cm} = 1 \text{ m}$$

$$1 \text{ km} = 1,000 \text{ m}$$

### Volume

milliliter (mL)

liter (L)

$$1,000 \text{ mL} = 1 \text{ L}$$

## Other Prefixes

kilo (k)

hecto (h)

deka (da)

no prefix

deci (d)

centi (c)

milli (m)

## Conversion

$\times 1,000$

$\times 100$

$\times 10$

$\div 10$

$\div 100$

$\div 1,000$

## Example

1 **kilometer** = 1,000 meters

1 **hectometer** = 100 meters

1 **dekameter** = 10 meters

1 meter = 1 meter

10 **decimeters** = 1 meter

100 **centimeters** = 1 meter

1,000 **millimeters** = 1 meter

1 millimeter



1 centimeter = 10 mm



1 decimeter = 10 cm = 100 mm

## Temperature

degrees Celsius ( $^{\circ}\text{C}$ )

Water freezes:  $0^{\circ}\text{C}$

Water boils:  $100^{\circ}\text{C}$