



## ILEARN Grade 4 Mathematics Reference Sheet

### Length

#### Customary

1 yard (yd) = 3 feet (ft)  
1 foot (ft) = 12 inches (in)

#### Metric

1 kilometer (km) = 1,000 meters (m)  
1 meter (m) = 100 centimeters (cm)

### Volume and Capacity

#### Customary

1 gallon (gal) = 4 quarts (qt)  
1 quart (qt) = 2 pints (pt)  
1 pint (pt) = 2 cups (c)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### Weight and Mass

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

### Time

1 year = 12 months  
1 year = 52 weeks  
1 week = 7 days

1 day = 24 hours  
1 hour = 60 minutes  
1 minute = 60 seconds



## ILEARN Grade 5 Mathematics Reference Sheet

### Length

#### Customary

1 yard (yd) = 3 feet (ft)  
1 foot (ft) = 12 inches (in)

#### Metric

1 kilometer (km) = 1,000 meters (m)  
1 meter (m) = 100 centimeters (cm)

### Volume and Capacity

#### Customary

1 gallon (gal) = 4 quarts (qt)  
1 quart (qt) = 2 pints (pt)  
1 pint (pt) = 2 cups (c)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### Weight and Mass

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

### Time

1 year = 12 months  
1 year = 52 weeks  
1 week = 7 days  
1 day = 24 hours  
1 hour = 60 minutes  
1 minute = 60 seconds

### Area

Area of a triangle =  $\frac{1}{2}bh$

Area of a parallelogram =  $bh$

Area of a trapezoid =  $\frac{1}{2}h(b_1 + b_2)$



## ILEARN Grade 6 Mathematics Reference Sheet

### Length

1 kilometer (km)  $\approx$  0.62 mile (mi)

1 meter (m)  $\approx$  3.28 feet (ft)

1 meter (m)  $\approx$  1.09 yards (yd)

1 meter (m)  $\approx$  39.37 inches (in)

1 centimeter (cm)  $\approx$  0.39 inch (in)

1 mile (mi)  $\approx$  1.61 kilometers (km)

1 foot (ft)  $\approx$  0.30 meter (m)

1 yard (yd)  $\approx$  0.91 meter (m)

1 inch (in)  $\approx$  2.54 centimeters (cm)

### Volume

1 liter (L)  $\approx$  1.06 quarts

1 liter (L)  $\approx$  0.26 gallon

1 gallon (gal)  $\approx$  3.79 liters (L)

1 quart (qt)  $\approx$  0.95 liter (L)

1 fluid ounce  $\approx$  29.57 milliliters (mL)

### Mass

1 kilogram (kg)  $\approx$  2.20 pounds (lb)

1 gram (g)  $\approx$  0.04 ounce (oz)

1 pound (lb)  $\approx$  0.45 kilograms (kg)

1 ounce (oz)  $\approx$  28.35 grams (g)

### Area

Area of a triangle =  $\frac{1}{2}bh$

Area of a parallelogram =  $bh$

Area of a trapezoid =  $\frac{1}{2}h(b_1 + b_2)$



## ILEARN Grade 7 Mathematics Reference Sheet

### Volume

Volume of a cylinder =  $\pi r^2 h$

### Area

Area of a circle =  $\pi r^2$

### Circumference

Circumference of a circle =  $\pi d$  or  $2\pi r$



## ILEARN Grade 8 Mathematics Reference Sheet

### Volume

$$\text{Volume of a cone} = \frac{1}{3}\pi r^2 h$$

$$\text{Volume of a sphere} = \frac{4}{3}\pi r^3$$

$$\text{Volume of a pyramid} = \frac{1}{3}Bh$$

### Surface Area

$$\text{Surface area of a sphere} = 4\pi r^2$$

### Pythagorean Theorem

$$\text{Pythagorean Theorem: } a^2 + b^2 = c^2$$