

## **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) 1 cup (c) = 8 ounces (oz)

#### 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) 1 mile (mi) = 5,280 feet (ft)

## Metric

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

## **Volume and Capacity**

## **Customary**

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

#### 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) 1 gram (g) = 1,000 milligrams (mg)

#### Time

1 year = 12 months 1 year = 52 weeks

1 week = 7 days1 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 ≈ 29.57 milliliters (mL)

#### **Mass**

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

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

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

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

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

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

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

# **Surface Area**

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

## **Pythagorean Theorem**

Pythagorean Theorem:  $a^2 + b^2 = c^2$