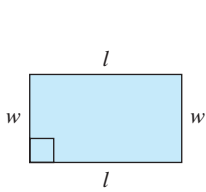
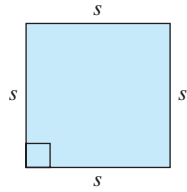


Perimeter and Circumference



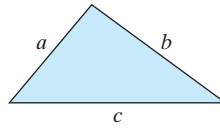
Rectangle

$$P = 2l + 2w$$



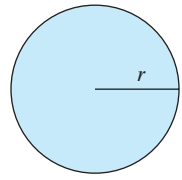
Square

$$P = 4s$$



Triangle

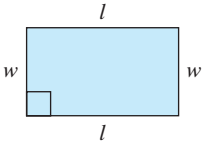
$$P = a + b + c$$



Circle

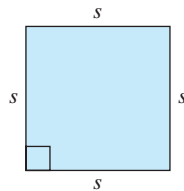
$$\text{Circumference: } C = 2\pi r$$

Area



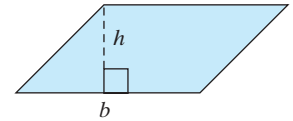
Rectangle

$$A = lw$$



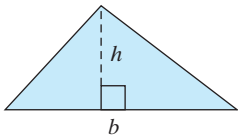
Square

$$A = s^2$$



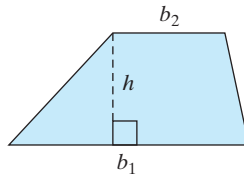
Parallelogram

$$A = bh$$



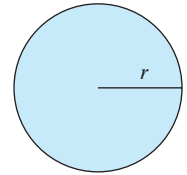
Triangle

$$A = \frac{1}{2}bh$$



Trapezoid

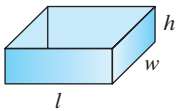
$$A = \frac{1}{2}(b_1 + b_2)h$$



Circle

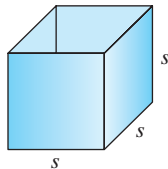
$$A = \pi r^2$$

Volume



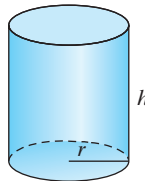
Rectangular Solid

$$V = lwh$$



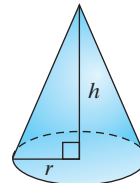
Cube

$$V = s^3$$



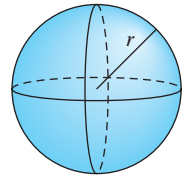
Right Circular Cylinder

$$V = \pi r^2 h$$



Right Circular Cone

$$V = \frac{1}{3}\pi r^2 h$$

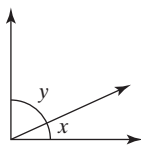


Sphere

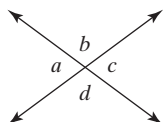
$$V = \frac{4}{3}\pi r^3$$

Angles

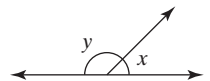
- Two angles are **complementary** if the sum of their measures is 90° .



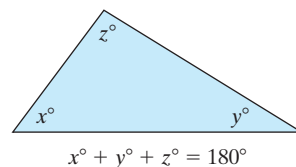
- $\angle a$ and $\angle c$ are vertical angles, and $\angle b$ and $\angle d$ are vertical angles. The measures of vertical angles are equal.



- Two angles are **supplementary** if the sum of their measures is 180° .



- The sum of the measures of the angles of a triangle is 180° .



$$x^\circ + y^\circ + z^\circ = 180^\circ$$

Conversion of U.S. Customary Units of Length, Time, Weight, Capacity, Energy, and Power

Length	Time
1 foot (ft) = 12 inches (in.) 1 yard (yd) = 3 feet (ft) 1 mile (mi) = 5280 feet (ft) 1 mile (mi) = 1760 yard (yd)	1 year (yr) = 365 days 1 week (wk) = 7 days 1 day = 24 hours (hr) 1 hour (hr) = 60 minutes (min) 1 minute (min) = 60 seconds (sec)
Capacity	Weight
3 teaspoons (tsp) = 1 Tablespoon (Tbsp) 1 cup (c) = 8 fluid ounces (fl oz) 1 pint (pt) = 2 cups (c) 1 quart (qt) = 2 pints (pt) 1 gallon (gal) = 4 quarts (qt)	1 pound (lb) = 16 ounces (oz) 1 ton = 2000 pounds (lb)
Energy	Power
1 Btu \approx 778 ft·lb	1 horsepower (hp) = $550 \frac{\text{ft} \cdot \text{lb}}{\text{sec}}$

Conversion of the Metric System (Prefix Line)

1000	100	10	1	0.1	0.01	0.001
kilo-	hecto-	deka-	unit	deci-	centi-	milli-

Conversion of U.S. Customary Measurement to Metric

Length	Capacity	Weight/Mass (on the Earth)
1 in. = 2.54 cm	1 qt \approx 0.95 L	1 lb \approx 0.45 kg
1 ft \approx 0.305 m	1 fl oz \approx 30 mL	1 oz \approx 28 g
1 yd \approx 0.914 m	1 mL = 1 cc	
1 mi. \approx 1.61 km		