

**Perimeter (P) and Circumference (C):**

Quantity	Formula
Perimeter of a square	$P = 4d$
Perimeter of a quadrilateral	$P = s_1 + s_2 + s_3 + s_4$
Perimeter of a triangle	$P = s_1 + s_2 + s_3$
Perimeter of Trapezoid	$P = \frac{h(b_1 + b_2)}{2}$
Circumference of a circle	$C = 2\pi r$

**Volume (V):**

Quantity	Formula
Volume of a cube	$V = s^3$
Volume of a rectangular prism	$V = lwh$
Volume of a right cylinder	$V = \pi r^2 h$
Volume of a sphere	$V = \frac{4}{3}\pi r^3$
Volume of a cone	$V = \pi r^2 \frac{h}{3}$
Volume of a rectangular pyramid	$V = \frac{lwh}{3}$
Volume of a triangular prism	$V = \frac{bhl}{2}$

**Units Conversion:**

1 cm = 10 mm	1 g = 1000 mg	1 mL = 1 cm <sup>3</sup>	K = °C + 273.15	1 psi = 0.068 atm
1 m = 100 cm	1 kg = 1000 g	1 dL = 100 mL	°C = (F - 32) x 5/9	1 atm = 101.325 kPa
1 m = 1000 mm	1 mg = 1000 µg	1 L = 10 dL	1 cal = 4.184 J	1 atm = 760 mmHg
1 km = 1000 m	1 lb = 16 oz	1 L = 1000 mL		1 atm = 1.01325 bar
1 ft = 12 in	1 kg = 2.20 lb	1 pint = 2 cups		1 mmHg = 1 torr
1 yard = 3 ft	454 g = 1 lb	1 qt = 4 cups		
1 mile = 5280 ft	1 ton = 907.2 kg	1 gallon = 4 qts		
1 in = 2.54 cm		946 mL = 1 qt		
1 yd = 0.914 m		1 L = 1.06 qt		
1 km = 0.621 miles				

**Area (A):**

Quantity	Formula
Area of square	$A = s^2$
Area of a rectangle	$A = l * w$
Area of a circle	$A = \pi r^2$
Area of a triangle	$A = \frac{bh}{2}$
Area of a parallelogram	$A = bh$
Area of trapezoid	$A = \frac{a + b}{2} h$
Area of a rhombus	$A = \frac{pq}{2}$
Area of Ellipse	$A = \pi r_1 r_2$
Area of Cube	$A = 6s^2$

**Surface area (SA):**

Quantity	Formula
Surface area of rectangular prism	$SA = 2(wl + hl + hw)$
Surface area of a cube	$SA = 6s^2$
Surface area of cylinder	$SA = 2\pi r h + 2\pi r^2$
Surface area of a sphere	$SA = 4\pi r^2$
Surface area of cone	$SA = \pi r s$