

Formulas

Perimeter

Triangle: $P = a + b + c$

Rectangle: $P = 2L + 2w$

Square: $P = 4s$

Circle: $C = \pi d = 2\pi r$

Volume

Prism: $V = Bh$

Rectangular Prism: $V = Lwh$

Cube: $V = s^3$

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

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

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

Pyramid: $V = \frac{1}{3}Bh$

Area

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

Rectangle: $A = Lw$

Square: $A = s^2$

Circle: $A = \pi r^2$

Parallelogram: $A = bh$

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

Surface Area

Rectangular Prism: $SA = 2Lw + 2Lh + 2wh$

Cube: $SA = 6s^2$

Sphere: $SA = 4\pi r^2$

Cylinder: $SA = 2\pi r^2 + 2\pi rh$

Cone: $SA = \pi r^2 + \pi r \underline{h}$

Pyramid with a square base: $SA = s^2 + 2s \underline{h}$

Pythagorean Theorem

$$c^2 = a^2 + b^2$$