



**AREA FORMULAS**

- square .....  $A = s^2$
- rectangle .....  $A = bh$
- parallelogram .....  $A = bh$
- triangle .....  $A = \frac{1}{2}bh$
- trapezoid .....  $A = \frac{1}{2}h(b_1 + b_2)$
- circle .....  $A = \pi r^2$

**LATERAL SURFACE AREA FORMULAS**

- right rectangular prism .....  $LA = 2(hw) + 2(lh)$
- right circular cylinder .....  $LA = 2\pi rh$
- right circular cone .....  $LA = \pi r\ell$   
( $\ell$  = slant height)
- right square pyramid .....  $LA = 2s\ell$   
( $\ell$  = slant height)

**TOTAL SURFACE AREA FORMULAS**

- cube .....  $SA = 6s^2$
- right rectangular prism .....  $SA = 2(lw) + 2(hw) + 2(lh)$
- sphere .....  $SA = 4\pi r^2$
- right circular cylinder .....  $SA = 2\pi r^2 + 2\pi rh$
- right circular cone .....  $SA = \pi r^2 + \pi r\ell$   
( $\ell$  = slant height)
- right square pyramid .....  $SA = s^2 + 2s\ell$   
( $\ell$  = slant height)

**VOLUME FORMULAS**

- cube .....  $V = s^3$   
( $s$  = length of an edge)
- right rectangular prism .....  $V = lwh$
- OR
- $V = Bh$   
( $B$  = area of a base)
- sphere .....  $V = \frac{4}{3}\pi r^3$
- right circular cylinder .....  $V = \pi r^2 h$
- right circular cone .....  $V = \frac{1}{3}\pi r^2 h$
- right square pyramid .....  $V = \frac{1}{3}s^2 h$

**CIRCLE FORMULAS**

- $C = 2\pi r$
- $A = \pi r^2$

**SPECIAL RIGHT TRIANGLES**

