

**SQUARE**

$P = 4s$   
 $A = s^2$

**RECTANGLE**

$P = 2a + 2b$   
 $A = ab$

**CIRCLE**

$P = 2\pi r$   
 $A = \pi r^2$

**TRIANGLE**

$P = a + b + c$   
 $A = \frac{1}{2}bh$

**PARALLELOGRAM**

$P = 2a + 2b$   
 $A = bh$

**CIRCULAR SECTOR**

$L = \pi r \frac{\theta}{180^\circ}$   
 $A = \pi r^2 \frac{\theta}{360^\circ}$

**PYTHAGOREAN THEOREM**

$a^2 + b^2 = c^2$   
 $c = \sqrt{a^2 + b^2}$

**CIRCULAR RING**

$A = \pi(R^2 - r^2)$

**SPHERE**

$S = 4\pi r^2$   
 $V = \frac{4\pi r^3}{3}$

**TRAPEZOID**

$P = a + b + c + d$   
 $A = h \frac{a+b}{2}$

**RECTANGULAR BOX**

$A = 2ab + 2ac + 2bc$   
 $V = abc$

**RIGHT CIRCULAR CONE**

$A = \pi r^2 + \pi r s$   
 $s = \sqrt{r^2 + h^2}$   
 $V = \frac{1}{3}\pi r^2 h$

$V = \frac{1}{3}Bh$   
 $L.A. = \frac{1}{2}lp$   
 $S.A. = L.A. + B$

**CUBE**

$A = 6l^2$   
 $V = l^3$

**CYLINDER**

$A = 2\pi r(r + h)$   
 $V = \pi r^2 h$

**FRUSTUM OF A CONE**

$V = \frac{1}{3}\pi h(r^2 + rR + R^2) = \frac{1}{3}h(S^2 + s^2 + \sqrt{Ss})$

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**REGULAR POLYGON OF n SIDES**

central angle:  $\frac{2\pi}{n}$   
 $A = \frac{1}{4}na^2 \cot \frac{\pi}{n}$   
 $P = an$