

**Mathematics Placement Test
Grade 9 Formula Sheet**

Pythagorean Theorem	$c^2 = a^2 + b^2$
Triangle	$A = \frac{1}{2}bh$
Square	$A = s^2$
Rectangle	$A = lw$
Parallelogram	$A = bh$
Circle	$C = 2\pi r$ $A = \pi r^2$
Rectangular solid	$V = lwh$ $A = 2lw + 2lh + 2wh$
Right circular cylinder	$V = \pi r^2 h$ $A = 2\pi r^2 + 2\pi rh$
Right prism	$V = Bh$ (B = area of the base)
Right circular cone	$V = \frac{1}{3}\pi r^2 h$ $A = \pi r^2 + \pi rs$ (s = slant height)
Sphere	$V = \frac{4}{3}\pi r^3$ $A = 4\pi r^2$