

Algebra 1 Formulas

$P = 2L + 2W$	$S = Ph + 2B$	$\sin A = \frac{\text{opposite}}{\text{hypotenuse}}$
$P = 4s$	$S = 6s^2$	$\cos A = \frac{\text{adjacent}}{\text{hypotenuse}}$
$C = \pi d$	$S = 2\pi rh + 2\pi r^2$	$\tan A = \frac{\text{opposite}}{\text{adjacent}}$
$d = 2r$	$S = \frac{1}{2}PL + B$	$a^2 + b^2 = c^2$
	$S = \pi rL + \pi r^2$	$m = \frac{y_2 - y_1}{x_2 - x_1}$
$A = LW$	$S = 4\pi r^2$	$y = mx + b$
$A = bh$	$V = Bh$	$y - y_1 = m(x - x_1)$
$A = s^2$	$V = s^3$	$M\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$
$A = \frac{1}{2}bh$	$V = \pi r^2 h$	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
$A = \frac{1}{2}(b_1 + b_2)h$	$V = \frac{1}{3}Bh$	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
$A = \frac{1}{2}d_1d_2$	$V = \frac{1}{3}\pi r^2 h$	$d = rt$
$A = \pi r^2$	$V = \frac{4}{3}\pi r^3$	$I = prt$
		${}^nC_r = \frac{n!}{r!(n-r)!}$
		${}^nP_r = \frac{n!}{(n-r)!}$