

FORMULAS

Constants

π	3.14
-------	------

Formulas

Description	Full	Abbreviated
Area	length \times width	$l \times w$
Area of a circle	$\pi \times \text{radius}^2$	$\pi \times r^2$
Area of a triangle	$\frac{\text{base} \times \text{height}}{2}$	$\frac{b \times h}{2}$
Circumference of a circle	$\pi \times \text{diameter}$	$\pi \times D$
Pythagorean Theorem	$(\text{side } a)^2 + (\text{side } b)^2 = (\text{side } c)^2$	$a^2 + b^2 = c^2$
Total rise of a rafter	$\frac{\text{total run}}{\text{unit of run}} \times \text{unit rise}$	
Total run of a rafter	$\frac{\text{total span}}{2}$	
Volume of a cube	length \times width \times height	$l \times w \times h$
Volume of a cylinder	$\pi \times \text{radius}^2 \times \text{height}$	$\pi \times r^2 \times h$