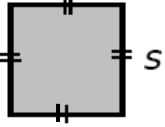
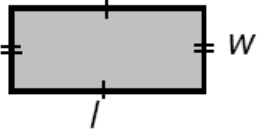
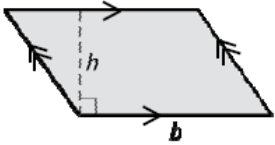
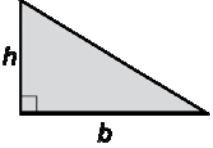
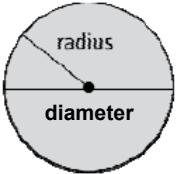


Formulas

Perimeter and Area:

Shape	Perimeter	Area
Square 	$P = s + s + s + s$ <i>or</i> $P = 4s$	$A = s^2$ <i>or</i> $A = s \times s$
Rectangle 	$P = (2l) + (2w)$ <i>or</i> $P = \text{sum of all sides}$	$A = lw$
Parallelogram 	$P = s_1 + s_2 + s_3 + s_4$ <i>or</i> $P = \text{sum of all sides}$	$A = bh$
Triangle 	$P = s_1 + s_2 + s_3$ <i>or</i> $P = \text{sum of all sides}$	$A = bh \div 2$ <i>or</i> $A = \frac{bh}{2}$

Shape	Radius	Diameter	Circumference	Area
Circle 	$r = d \div 2$	$d = 2r$	$C = 2\pi r$ <i>or</i> $C = \pi d$	$A = \pi r^2$

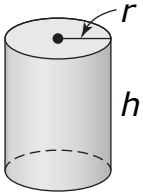
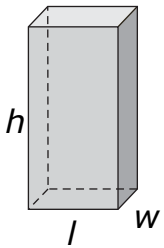
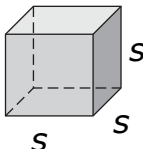
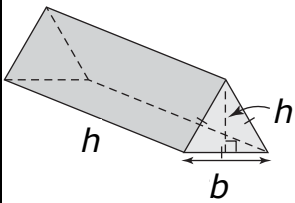


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 (continued)

Surface Area: $SA = 2 \times (\text{area of base}) + (\text{perimeter of base}) \times (\text{height})$
 or
 $SA = \text{sum of the area of all the faces}$

Prism	Surface Area	Volume
Cylinder 	$SA = 2\pi r^2 + \pi dh$ or $SA = 2\pi r^2 + 2\pi rh$	$V = \text{area of base} \times \text{height}$ or $V = \pi r^2 h$
Right Rectangular Prism 	$SA = \text{area of top and bottom} + \text{area of front and back} + \text{area of ends}$ or $SA = 2lw + 2lh + 2hw$	$V = \text{area of base} \times \text{height}$ or $V = lwh$
Cube 	$SA = 6(\text{area of side})$ or $SA = 6s^2$	$V = \text{area of base} \times \text{height}$ or $V = s^3$ or $V = s \times s \times s$
Right Triangular Prism 	$SA = \text{sum of area of 3 rectangles} + 2 \times \text{area of triangle}$	$V = \text{area of triangular base} \times \text{height}$ or $V = (bh \div 2) \times \text{height of prism}$



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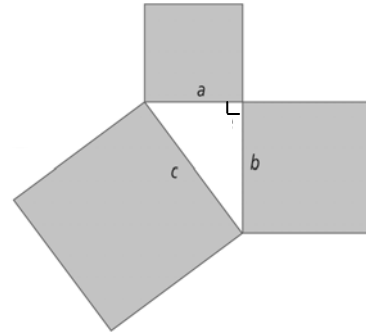
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Scale:

$$\text{Scale} = \frac{\text{diagram measurement}}{\text{actual measurement}}$$

Distance: $\text{Speed} = \frac{\text{distance}}{\text{time}}$

Pythagorean relationship: $c^2 = a^2 + b^2$

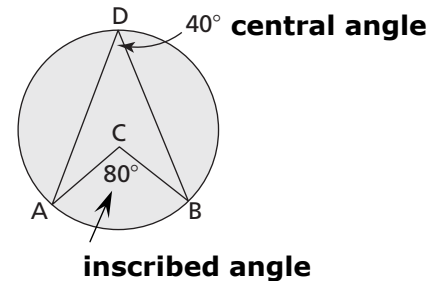


Properties of Circles:

central angle = $2 \times$ inscribed angle

inscribed angle = central angle $\div 2$

sum of angles in a triangle = 180°



Probability:

$$\text{Probability} = \frac{\# \text{ of favourable outcomes}}{\text{total } \# \text{ of outcomes}}$$

$$\text{Mean} = \frac{\text{sum of items}}{\text{number of items}}$$

