

Area and Perimeter Formulas

Rectangle, square, triangle, circle, trapezoid and parallelogram

Rectangle



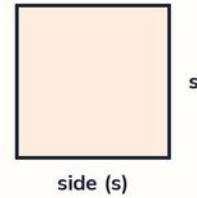
Area $A = l \times w$

Perimeter $P = 2 \times (l + w)$

Example: 8 m by 5 m gives $A = 40 \text{ m}^2$, $P = 26 \text{ m}$

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Square



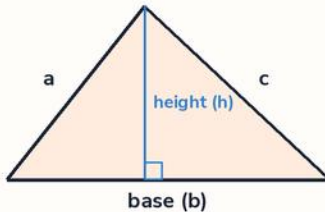
Area $A = s \times s = s^2$

Perimeter $P = 4 \times s$

Example: side 6 cm gives $A = 36 \text{ cm}^2$, $P = 24 \text{ cm}$

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Triangle



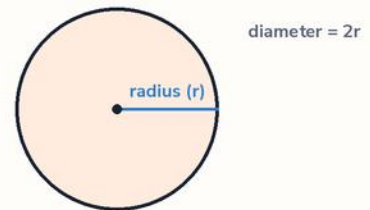
Area $A = \frac{1}{2} \times b \times h$

Perimeter $P = a + b + c$

Example: base 10 cm, height 6 cm gives $A = 30 \text{ cm}^2$

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Circle



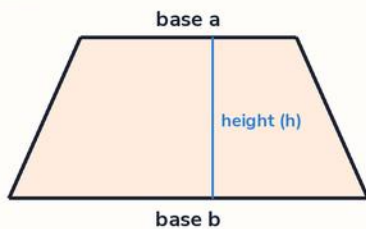
Area $A = \pi \times r^2$

Perimeter $C = 2 \times \pi \times r$

Example: $r = 3 \text{ cm}$ gives $A \approx 28.27 \text{ cm}^2$, $C \approx 18.85 \text{ cm}$

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Trapezoid



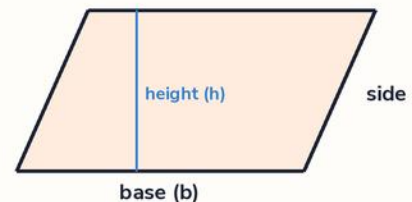
Area $A = (a + b) \div 2 \times h$

Perimeter $P = \text{add all 4 sides}$

Example: $a = 6$, $b = 10$, $h = 4$ gives $A = 32$

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Parallelogram



Area $A = b \times h$

Perimeter $P = 2 \times (b + \text{side})$

Example: $b = 9 \text{ m}$, $h = 4 \text{ m}$ gives $A = 36 \text{ m}^2$

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