



GEOMETRY QUICK GUIDE 4: 2D SHAPES FORMULAS

TRIANGLE FORMULAS	CIRCLE FORMULAS	QUADRILATERAL FORMULAS
Angles in a triangle add up to 180° . So $a + b + c = 180^\circ$	Parts of a circle	Angles in a quadrilateral add up to 360° . So $a + b + c + d = 360^\circ$
Area of a triangle $= \frac{1}{2} \times b \times h$ or $\frac{1}{2} bh$	Circumference of a circle $= 2\pi r$ or πd	Area of a rectangle $= b \times h$ Perimeter of a rectangle $= 2b + 2h$
Pythagoras' theorem In a right triangle $a^2 + b^2 = c^2$	Area of a circle $= \pi r^2$	Area of a parallelogram $= b \times h$
Basic trigonometry laws $\sin \theta = o/h$ $\cos \theta = a/h$ $\tan \theta = o/a$	The length L of an arc $= 2\pi r(\theta/360)$ The area of a sector $= \pi r^2 (\theta/360)$	Area of a trapezium $= \frac{1}{2} (b1 + b2) \times h$

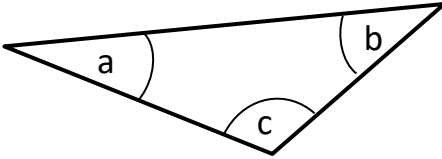
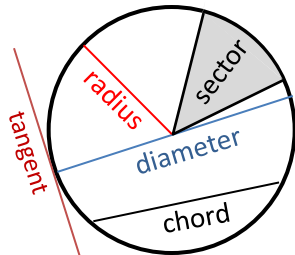
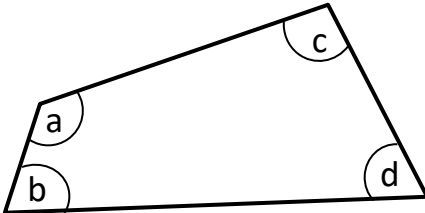
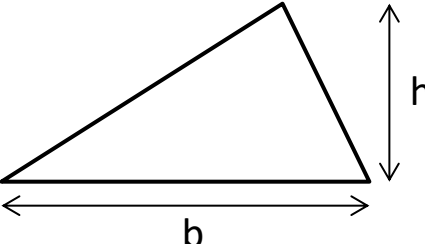
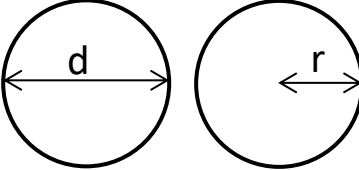
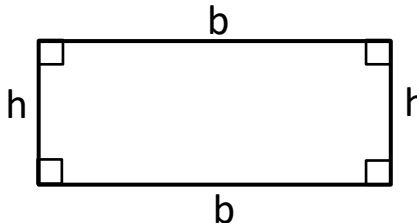
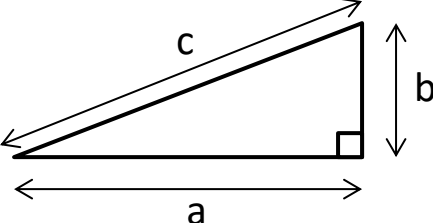
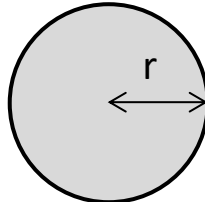
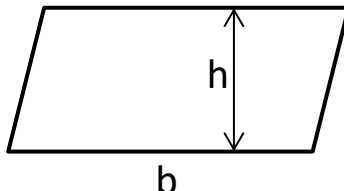
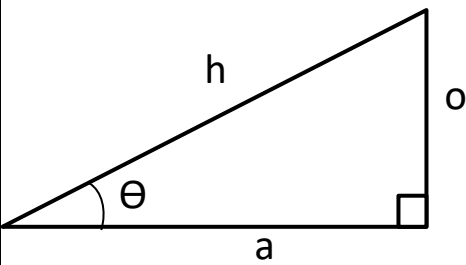
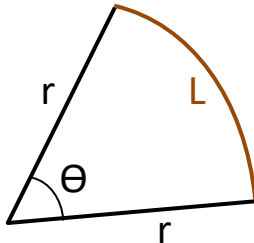
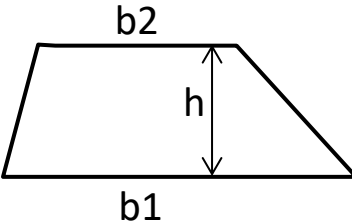


Name

Date



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