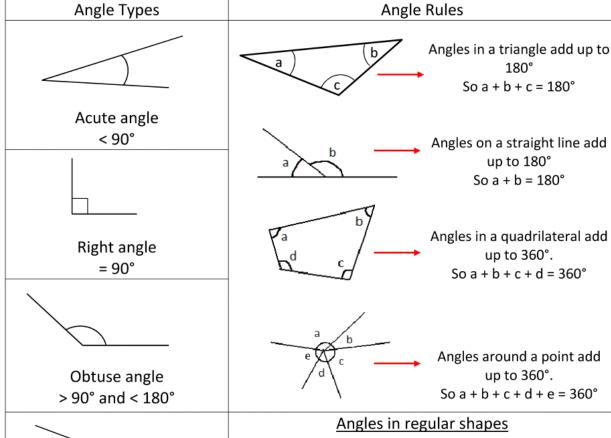
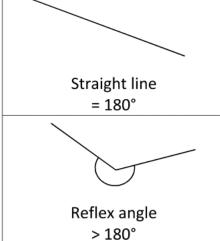
GEOMETRY QUICK GUIDE 1: ANGLES





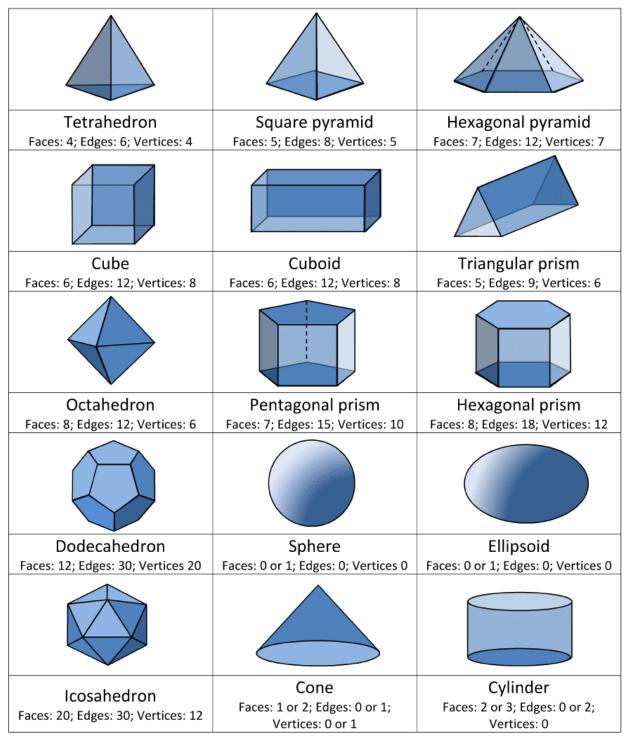
Name of shape	Sides	Interior angles
equilateral triangle	3	60°
square	4	90°
regular pentagon	5	108°
regular hexagon	6	120°
regular heptagon	7	128.6°
regular octagon	8	135°
regular nonagon	9	140°
regular decagon	10	144°

Interior angles of regular n-sided polygons add up to 180(n-2)°

GEOMETRY QUICK GUIDE 2: 2D SHAPES (UK)

TRIANGLES	QUADRILATERALS	REGULAR POLYGONS
Equilateral triangle	Square	Equilateral triangle
All sides equal; interior angles 60°	All sides equal; all angles 90°	3 sides; angle 60°
Isosceles triangle	Rectangle	Square
2 sides equal; 2 congruent angles	Opposite sides equal, all angles 90°	4 sides; angle 90°
Scalene triangle No sides or angles equal	Rhombus All sides equal; 2 pairs of parallel lines; opposite angles equal	Regular Pentagon 5 sides; angle 108°
	₹ → ₹	
Right triangle	Parallelogram	Regular Hexagon
1 right angle	Opposite sides equal, 2 pairs of parallel lines	6 sides; angle 120°
Acute triangle	Kite	Regular Octagon
All angles acute	Adjacent sides equal; 2 congruent angles	8 sides; angle 135°
Obtuse triangle 1 obtuse angle	Trapezium Trapezoid 1 pair of parallel sides Sides	Regular Decagon 10 sides; angle 144°

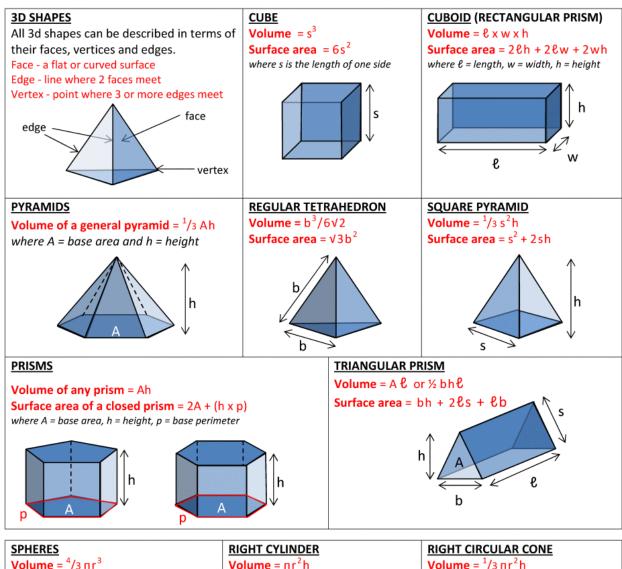
GEOMETRY QUICK GUIDE 3: 3D SHAPES

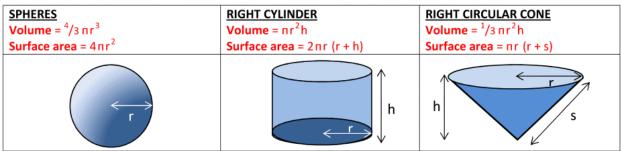


GEOMETRY QUICK GUIDE 4: 2D SHAPES FORMULAS

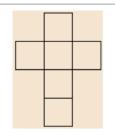
TRIANGLE FORMULAS	CIRCLE FORMULAS	QUADRILATERAL FORMULAS
a b	diameter chord	a d
Angles in a triangle add up to 180° . So a + b + c = 180°	Parts of a circle	Angles in a quadrilateral add up to 360° . So a + b + c + d = 360°
$ \begin{array}{c} $	d r	h b h
Area of a triangle = ½ x b x h or ½ bh	Circumference of a circle = 2nr or nd	Area of a rectangle = b x h Perimeter of a rectangle = 2b + 2h
$\begin{array}{c} c \\ \downarrow \\ a \end{array} $	r	b h
Pythagoras' theorem In a right triangle $a^2 + b^2 = c^2$	Area of a circle = πr ²	Area of a parallelogram = b x h
h o	r L P	b2 h b1
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 = ½ (b1 + b2) x h

GEOMETRY QUICK GUIDE 5: 3D SHAPE FORMULAS

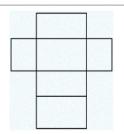




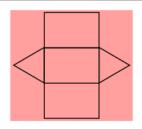
NETS INFORMATION SHEET 2



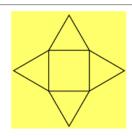
Cube Faces: 6 Edges: 12 Vertices: 8



Cuboid Faces: 6 Edges: 12 Vertices: 8

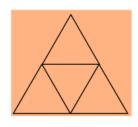


Triangular Prism
Faces: 5
Edges: 9
Vertices: 6



Square-based Pyramid

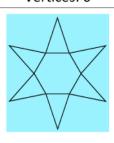
Faces: 5 Edges: 8 Vertices: 5



Tetrahedron

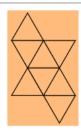
(Triangular-based Pyramid) Faces: 4

Edges: 6 Vertices: 4



Hexagonal-based Pyramid

Faces: 7 Edges: 12 Vertices: 7



Octahedron

Faces: 8 Edges: 12 Vertices: 6



Dodecahedron

Faces: 12 Edges: 30 Vertices: 20



Icosahedron

Faces: 20 Edges: 30 Vertices: 12