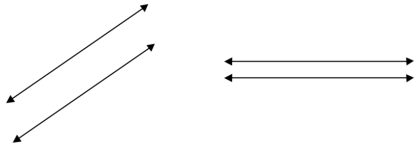
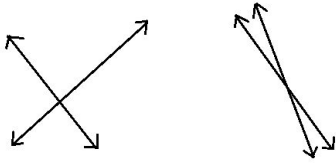
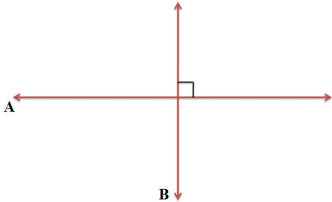
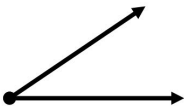
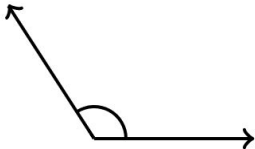
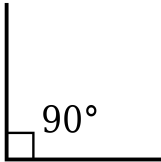
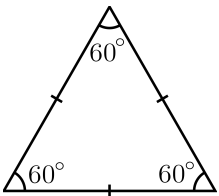
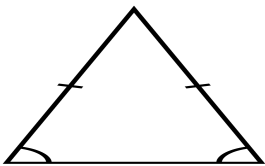
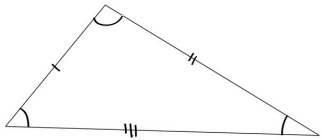


## Geometry & Spatial Sense

Types of Lines		
Parallel	Intersecting	Perpendicular
The lines will never cross	The lines (will) cross	The lines cross at $90^\circ$
		

Types of Angles		
Acute	Obtuse	Right
Angle is smaller than $90^\circ$	Angle is larger than $90^\circ$	Angle is exactly $90^\circ$
		

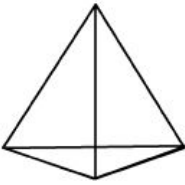
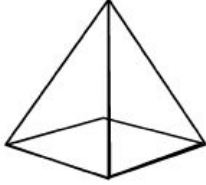
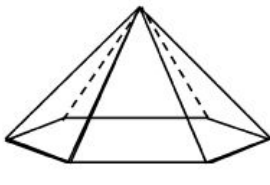
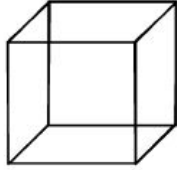
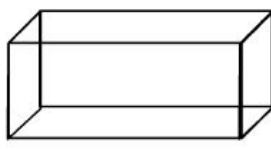
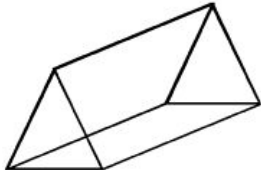
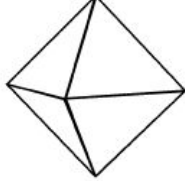
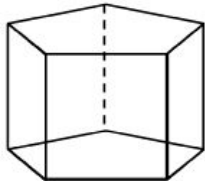
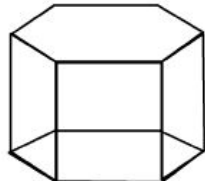
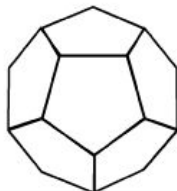
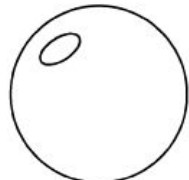
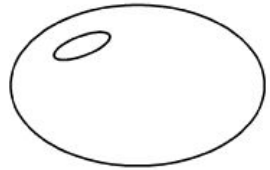
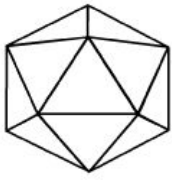
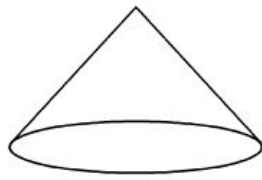
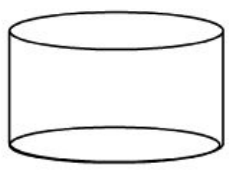
Types of Triangles (all angles add to $180^\circ$ )		
Equilateral	Isosceles	Scalene
All sides are the same length	2 sides are the same length	All sides are different lengths
		

Ways to move objects		
Flip	Slide	Turn
The object is turned over, creating a mirror image	The objects stays in the same position but moves space	The object is rotated

\*\*Two shapes are **congruent** if they are the same when turned, slid, flipped, or changes size.

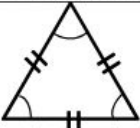
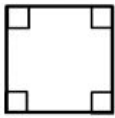
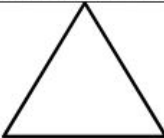
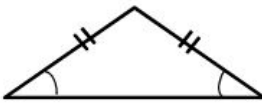
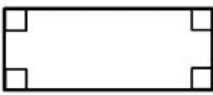


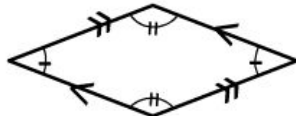

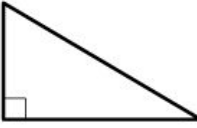


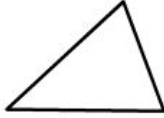
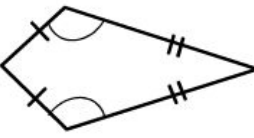
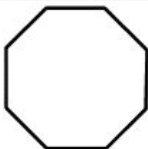

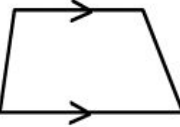
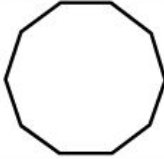
# Geometry & Spatial Sense

Properties of 3D Shapes		
Faces	Edges	Vertices
Flat sides of an object	Where 2 faces meet	The points where faces meet

		
<b>Tetrahedron</b> Faces: 4; Edges: 6; Vertices: 4	<b>Square pyramid</b> Faces: 5; Edges: 8; Vertices: 5	<b>Hexagonal pyramid</b> Faces: 7; Edges: 12; Vertices: 7
		
<b>Cube</b> Faces: 6; Edges: 12; Vertices: 8	<b>Cuboid</b> Faces: 6; Edges: 12; Vertices: 8	<b>Triangular prism</b> Faces: 5; Edges: 9; Vertices: 6
		
<b>Octahedron</b> Faces: 8; Edges: 12; Vertices: 6	<b>Pentagonal prism</b> Faces: 7; Edges: 15; Vertices: 10	<b>Hexagonal prism</b> Faces: 8; Edges: 18; Vertices: 12
		
<b>Dodecahedron</b> Faces: 12; Edges: 30; Vertices: 20	<b>Sphere</b> Faces: 0 or 1; Edges: 0; Vertices: 0	<b>Ellipsoid</b> Faces: 0 or 1; Edges: 0; Vertices: 0
		
<b>Icosahedron</b> Faces: 20; Edges: 30; Vertices: 12	<b>Cone</b> Faces: 1 or 2; Edges: 0 or 1; Vertices: 0 or 1	<b>Cylinder</b> Faces: 2 or 3; Edges: 0 or 2; Vertices: 0

# Geometry & Spatial Sense

Properties of 2D Shapes	
Sides	Corners
The lines that form the object	Where two lines connect

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