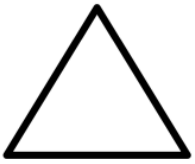
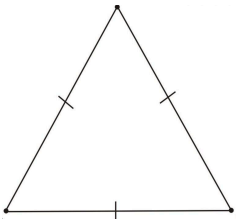
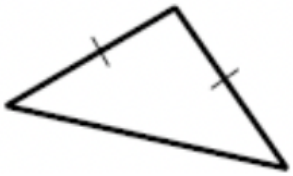
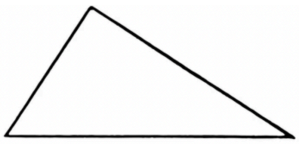
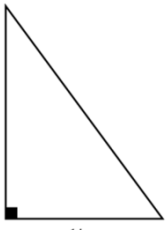
MATHS WORKSHEETS- GEOMETRY- SHAPES AND THEIR PROPERTIES

Shapes and their properties.

1	**Triangle** 	• Three sides • Three angles • The sum of all the interior angles in a triangle is 180°. • Area, A = ½ base x height sq. unit, • Perimeter = sum of the lengths of the sides.
2	**Equilateral triangle** 	• 3 sides • All sides equal • Interior angles 60°
3	**Isosceles triangle** 	• 2 sides equal • 2 congruent angles
4	**Scalene triangle** 	• No sides or angles equal • No congruent sides
5	**Right angled triangle** 	• If one of the angles of a triangle is 90° it is called a right-angled triangle.

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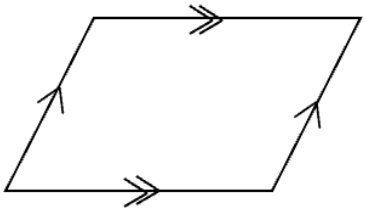
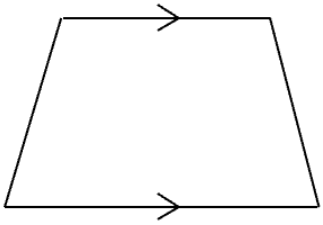
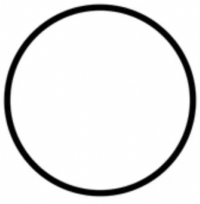
6	**Square** 	• Four sides. All four sides are equal in length. • Four angles. All angles are 90 degrees. • Area = s x s sq. unit, where s is the length of one side • Perimeter = 4 x s unit, where s is the length of one side. • Sum of the interior angles is 360°
7	**Rectangle** 	• Four sides. Opposite sides are equal in length. • Four angles. All angles are 90 degrees. • Area = length x width sq. unit • Perimeter = 2 (length + width) unit • Sum of four angles of rectangle is equal to 360°.
8	**Parallelogram** 	• Four sides. • Opposite sides are parallel and are of equal in length. • Opposite angles are equal. • All the angles of a parallelogram add up to 360°. • Area = base x height sq. units
9	**Trapezium** 	• Four sides. • Two sides are parallel. • Area= ½ x sum of bases x height sq. units
10	**Circle** 	• Diameter touches two points in a circle and passes through the center point. • Radius is half of the diameter. • Area = πr^2 sq. units, where r is the radius • Circumference= $2\pi r$ or πd units.

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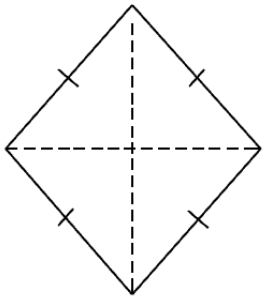
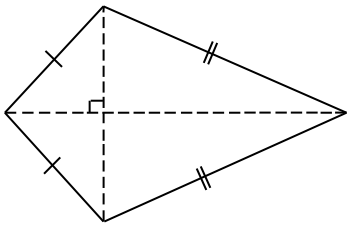
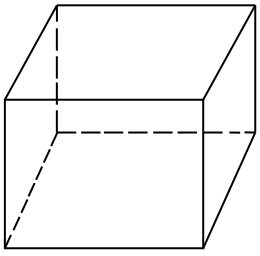
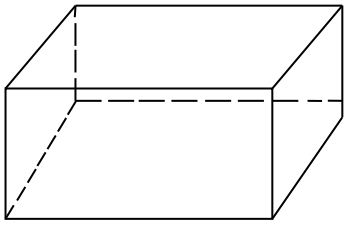
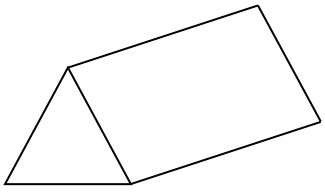
11	**Rhombus** 	• All sides equal • 2 pairs of parallel lines • Opposite angles equal • Area of Rhombus = A = ½ × d_1 × d_2 sq. units • Area of Rhombus = A = base x height sq. units
12	**Kite** 	• Adjacent sides equal • Area of a Kite = A = ½ × d_1 × d_2 sq. units • Kite has 2 diagonals that intersect each other at right angles.
13	**Cube** 	• A cube is a rectangular prism in which all sides are squares • Volume of a cube = a^3 cubic units
14	**Rectangular Prism (Cuboid)** 	• Volume = length x width x height cubic units • rectangular box with sides
15	**Triangular Prism** 	• This shape is a box in which the base is a triangle • The volume of the triangle times the perpendicular height • Volume= Area x height cubic units

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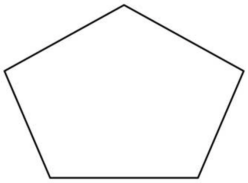
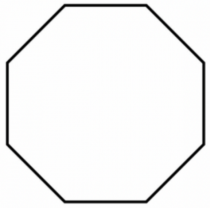
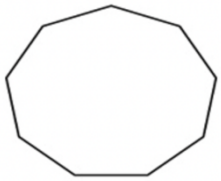
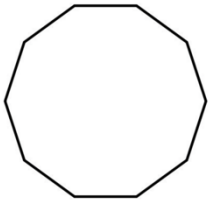
16	**Pentagon** 	5 sides
17	**Hexagon**	6 sides
18	**Heptagon**	7 sides
19	**Octagon** 	8 sides
20	**Nonagon** 	9 sides
21	**Decagon** 	10 sides