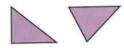
A 2-D shape with straight sides is a polygon.

TRIANGLES



A 2-D shape with three straight sides is a triangle.

QUADRILATERALS



A 2-D shape with four straight sides is a quadrilateral. Squares and rectangles are quadrilaterals.

OTHER POLYGONS





5 sides – pentagon 6 sides – hexagon 7 sides – heptagon 8 sides – octagon

A regular polygon has all sides and angles equal.

Example

Regular pentagon.



A

- For each of the following shapes write down:
 - a) the letter
 - b) the number of sides
 - c) the name of the shape.



В









G

















- Which of the above shapes have a right angle?
- 3 What is the largest possible number of right angles in:
 - a) a triangle
 - b) a quadrilateral
 - c) a pentagon?

8









Which of the above shapes:

- a) has the longest side
- b) has the shortest side
- c) has the largest area
- d) has the smallest area?









Which of the above triangles:

- a) has three equal sides
- b) have two equal sides
- c) have a right angle
- d) have an obtuse angle?

Look at the shapes in Section A.
Write down the letter of all the shapes which:

- are quadrilaterals
- 4 have 2 or more obtuse angles
- 5 have more than 2 lines of symmetry
- 6) have 1 or more pairs of parallel sides
- have 2 or more acute angles
- 8 have 2 or more pairs of perpendicular sides
- are not symmetrical
- nave 6 or more sides.
- ① Draw a pentagon with:
 - a) 2 acute angles
 - b) 3 acute angles
 - c) 4 acute angles.



Copy the Carroll diagrams and use them to sort the shapes in Section A.

	more than 4 sides	not more than 4 sides
regular		
not regular		

	symmetrical	not symmetrical
less than 5 sides		
not less than 5 sides		

- 3 Copy or trace the symmetrical shapes in Section A. Draw on the lines of symmetry.
- 4 Use squared paper to draw the following shapes.
 - a) a quadrilateral with equal sides but not equal angles
 - a quadrilateral with one line of symmetry and two angles greater than 90°
 - a quadrilateral with one line of symmetry and one angle greater than 180°
 - a quadrilateral with one pair of parallel sides and no line of symmetry.
- 5 Draw a hexagon with two angles greater than 180°.
- 6 Draw a pentagon with two angles greater than 180°.