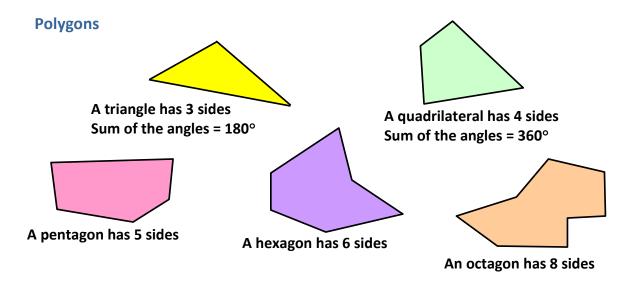
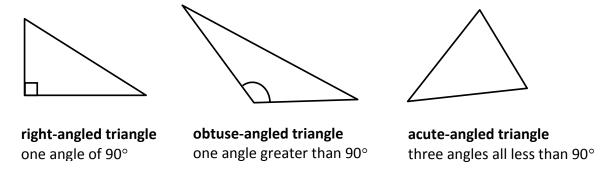


This activity is about recognising 2D shapes and their properties.

Information sheet

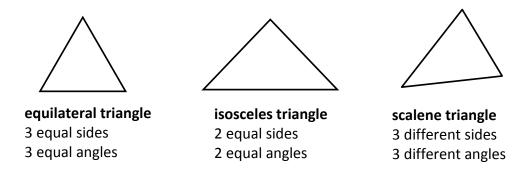


Special triangles and their properties



Think about

Why is it not possible for a triangle to have more than one right angle?

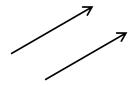


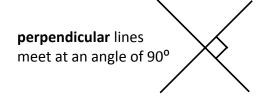
Think about

What is the size of each angle in an equilateral triangle?

Parallel and perpendicular lines

parallel lines are always the same distance apart





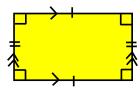
Special quadrilaterals and their properties

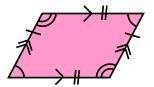
square

4 equal sides, 4 right angles, opposite sides parallel



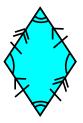
rectangle opposite sides equal and parallel, 4 right angles





parallelogram

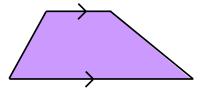
opposite sides equal and parallel opposite angles equal



rhombus

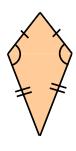
4 equal sides opposite sides parallel opposite angles equal



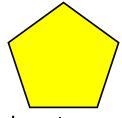


kite

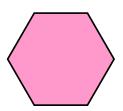
2 pairs of equal sides1 pair of equal angles



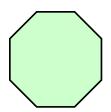
Regular polygons have equal sides and equal angles.



Regular pentagon



Regular hexagon



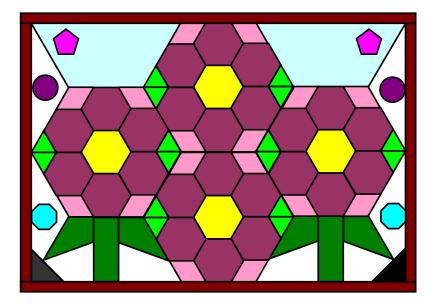
Regular octagon

Think about

What is another name for a regular triangle? What is another name for a regular quadrilateral?

Try this Shape names and properties

The diagram shows a geometrical design on a tray. Use the diagram to answer the questions.



- 1 List the names of all the 4-sided shapes in the design.
- 2 What is the name of the shape at the centre of each flower?
- 3 Which shapes in the design have one or more pairs of parallel sides?
- 4 How many pentagons are there in the design?
- 5 Name the types of triangle used in the design.
- 6 Which geometrical shape in the design does not have straight sides?
- **7** What shape is the tray?
- 8 How many octagons are there in the design?

Try this Symmetry

The table includes some of the shapes in the design. Fill the gaps.

Chana	Name of the chara	North and Elizabeth Community	Onder of retational arms start
Shape	Name of the shape	Number of lines of symmetry	Order of rotational symmetry

At the end of the activity

Name the different types of triangles.

Name each special type of quadrilateral. List their properties.

What does the term 'regular' mean?

What is another name for a regular quadrilateral?

What types of jobs involve using geometrical shapes? List as many as you can.