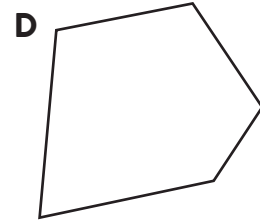
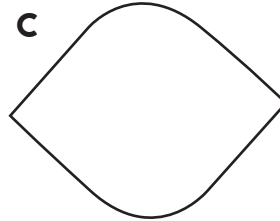
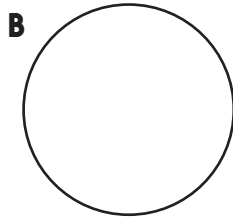
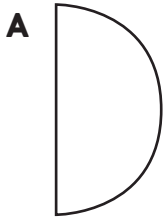


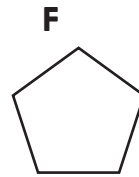
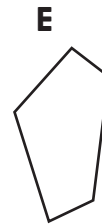
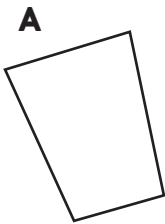
Properties of 2-D shapes

Sheet 1

1. i) Which of these is a polygon? _____
ii) Why? _____



2. Look at these shapes.



Match the shapes to each description below:

A triangle: _____ and _____

A quadrilateral: _____ and _____

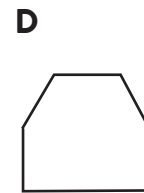
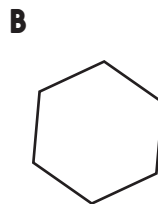
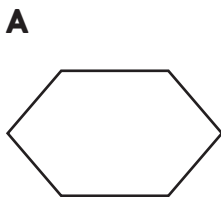
A pentagon: _____ and _____

A symmetrical polygon: _____, _____ and _____

A regular polygon: _____ and _____

An irregular polygon: _____, _____, _____ and _____

3. Which shape is not a hexagon? _____



Challenge

Draw four polygons with different numbers of sides.

Label them A, B, C and D.

Make up a quiz to test whether a partner can describe and identify each,

e.g. 1. How many pairs of parallel sides does it have?







2. Name three different types of this shape.

3. How many of me do you need to build a square based pyramid?

Properties of polygons

Sheet 1

Complete this table by writing a tick in each box that is 'true'.

	square 	equilateral triangle 	irregular pentagon 	regular hexagon 	regular pentagon 	octagon 
all sides the same length						
one pair of parallel sides						
more than 1 pair of parallel sides						
5 sides						
more than 4 sides						
less than 5 vertices						
no perpendicular sides						

Was there a column that was difficult to complete? Why?

Challenge

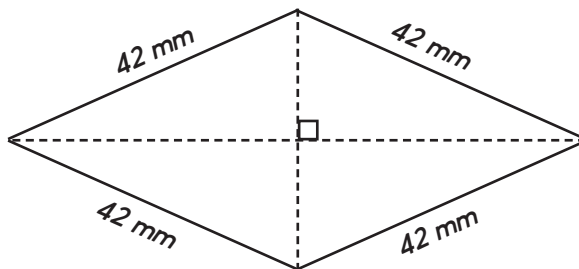
- Sometimes, Always or Never? A polygon with parallel sides also has perpendicular sides.
- Draw a polygon with three sets of parallel sides... And another, with two right angles... And another, with 7 sides.

Properties of polygons - quadrilaterals

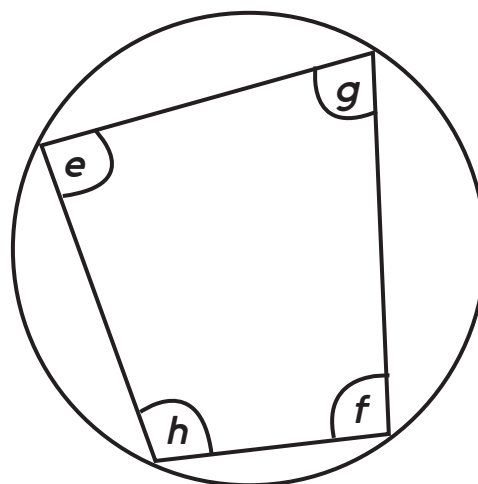
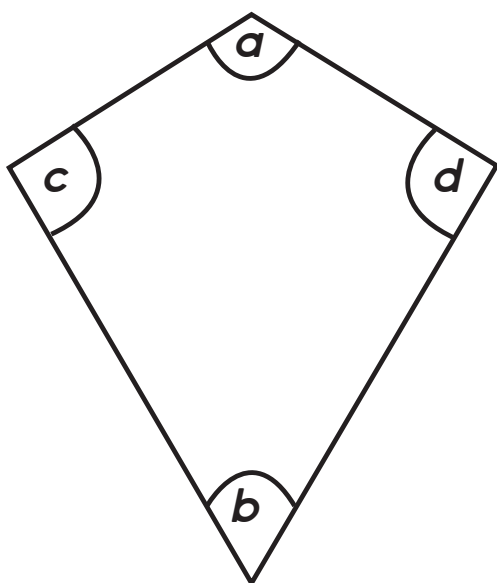
Sheet 1

1.

What is this shape?
How do you know?



2.



Use a protractor to measure the angles in these shapes.
Write them down.

What do you notice about:

- c and d ,
- the total of e and f ,
- the total of g and h ?

3. In your book or on the back of this sheet, draw a quadrilateral with one pair of perpendicular sides.

Challenge

Draw two more quadrilaterals.
Measure and add up the four angles in each shape. What do you notice?