Geometry
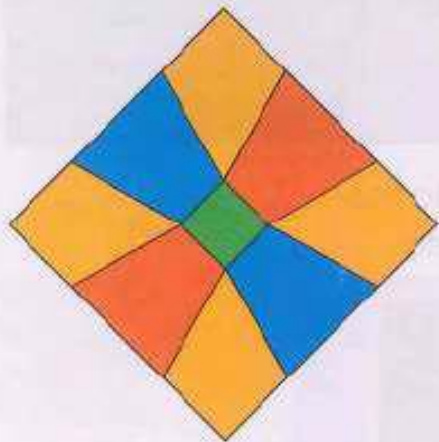
Let's investigate

What can you see in the pattern below?

How many:
- squares?
- trapeziums?
- kites?
- right-angles?

Vocabulary

polygon: a closed 2D shape with three or more straight sides.

quadrilateral: a polygon with exactly four sides.

parallelolgram: a quadrilateral. Both pairs of opposite sides are parallel.

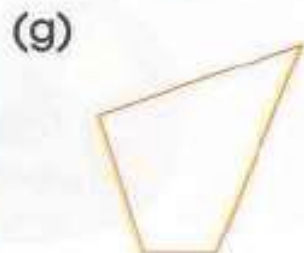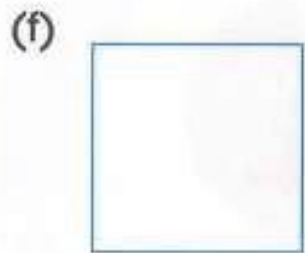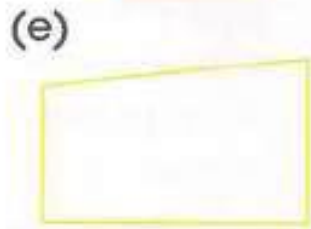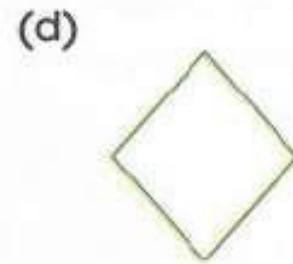rectangle: a quadrilateral. Both pairs of opposite sides are parallel and all the angles are right angles.
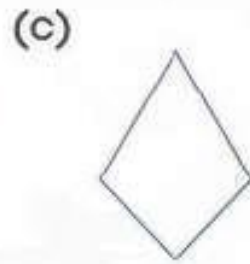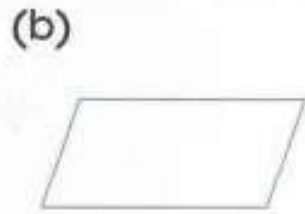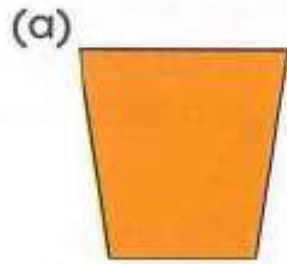
rhombus: a quadrilateral. Both pairs of opposite sides are parallel and all the sides are the same length.

square: a quadrilateral. Both pairs of opposite sides are parallel, all the sides are the same length and all the angles are right angles.

trapezium (also known is some countries as a 'trapezoid'): a quadrilateral. One pair of opposite sides is parallel.

kite: a quadrilateral. Two pairs of adjacent sides are the same length.

2 Copy and complete the table for these shapes.

(a)

(b)

(c)

(d)

(e)

(f)

(g)

(h)

	Number of right angles	Number of pairs of parallel sides	Most specific name
(a)			
(b)			
(c)			
(d)			
(e)			
(f)			
(g)			
(h)			

Use the vocabulary list to find the most specific name for each shape.