Investigating diagonals

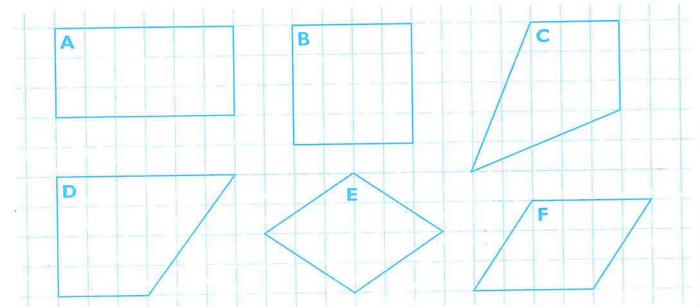
Classify quadrilaterals

- 1 Copy each quadrilateral on to 1 cm squared paper.
- 2 Draw in the diagonals.
- 3 Below each shape write its name.

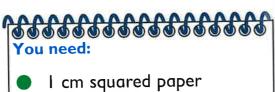
quadrilateral names: square, rectangle, rhombus, trapezium, parallelogram, kite



- I cm squared paper
- red pencil
- 4 Draw in red the diagonals which intersect at right angles.

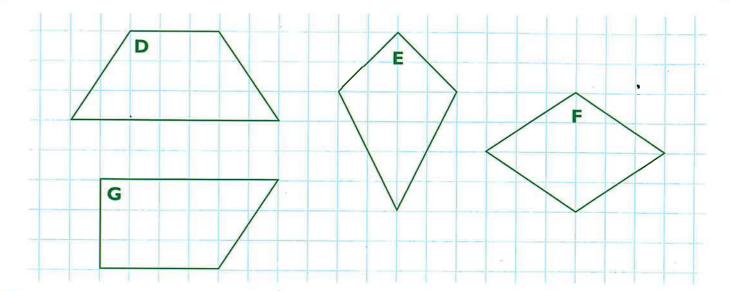


- Copy these quadrilaterals on to I cm squared paper.
- Draw in the diagonals and cut out each shape.



scissors

A	В	/ C	/
			-



3 Copy and complete. Mark ✓ for yes and ✗ for no. Find the answers by folding and measuring.

	Quadrilateral							
Property	Α	В	С	D	E	F	G	
4 sides equal	1	Х	Х					
4 angles equal	1							
diagonals are same length								
diagonals cut each other in half-								
diagonals intersect at right angles			v					
a diagonal is an axis of symmetry								



Diagonals of rectangles and parallelograms.

Investigate this statement. The diagonals of any rectangle are equal and bisect each other.

Draw about 6 different parallelograms on I cm square dot paper. Draw in the diagonals.

For each parallelogram, measure the diagonals from the vertices to the intersection. Write what you notice.

Compare your results for questions and 2. In what ways are the diagonals of rectangles and parallelograms similar? Different?

You need: