

2D SHAPES

CONTENT DOMAIN REFERENCES:
G2a, G2b

KS2 SATS

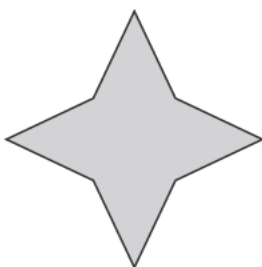
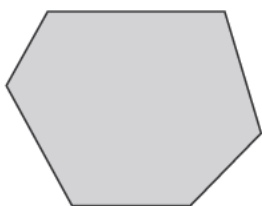
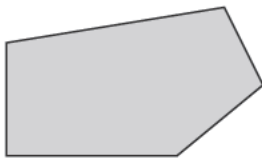
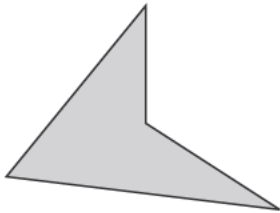
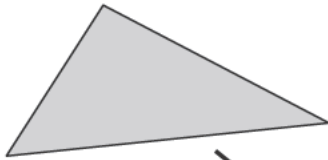
PRACTICE QUESTIONS BY TOPIC

1

Match each shape to the correct name.

[2012]

One has been done for you.



pentagon

triangle

octagon

quadrilateral

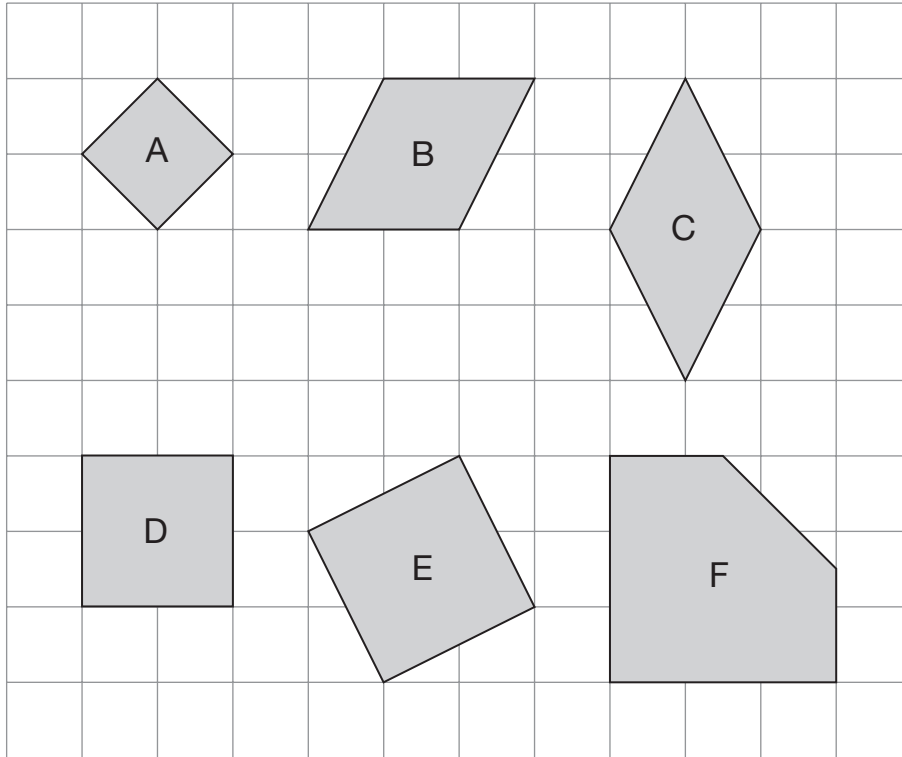
hexagon

[2 marks]

2

Here are six shapes on a square grid.

[2011]



Write the letters of **all** the shapes that are squares.

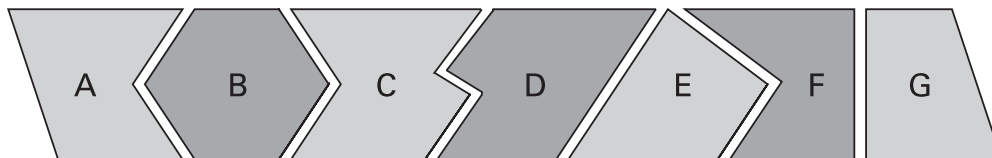


[1 mark]

3

Here are seven shapes.

[2004]



Write the letters of the two shapes which are **pentagons**.



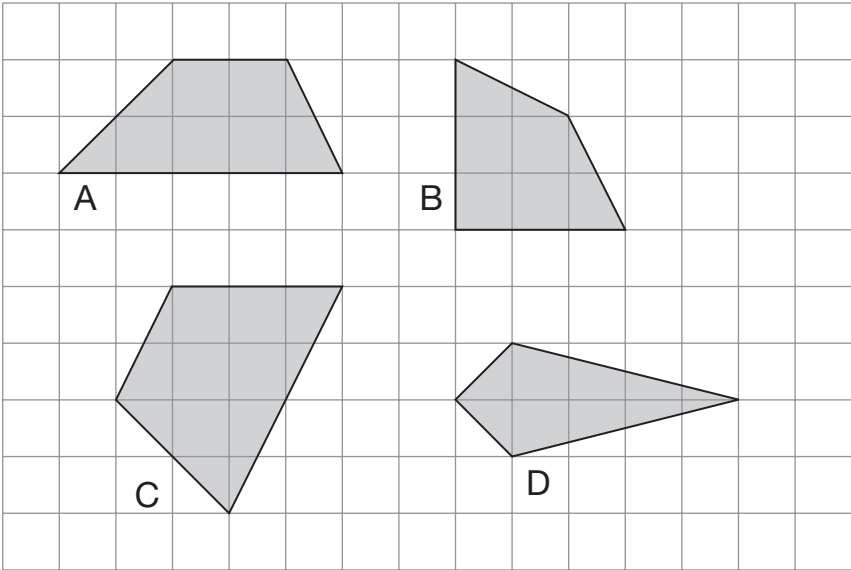
..... and

[1 mark]

4

Here are some shapes on a grid.

[2007]



Write the letter of each shape that has one pair of parallel sides.

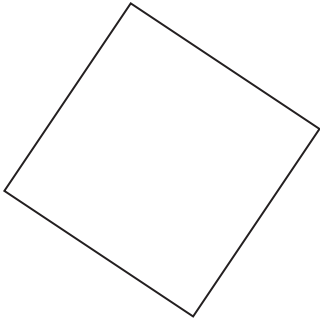


[1 mark]

5

Look at this shape.

[Extra]



Complete the sentences.

The shape is a square so the sides must be

The shape is a square so the angles must be

[1 mark]

6

A square always has four sides.

[2008]

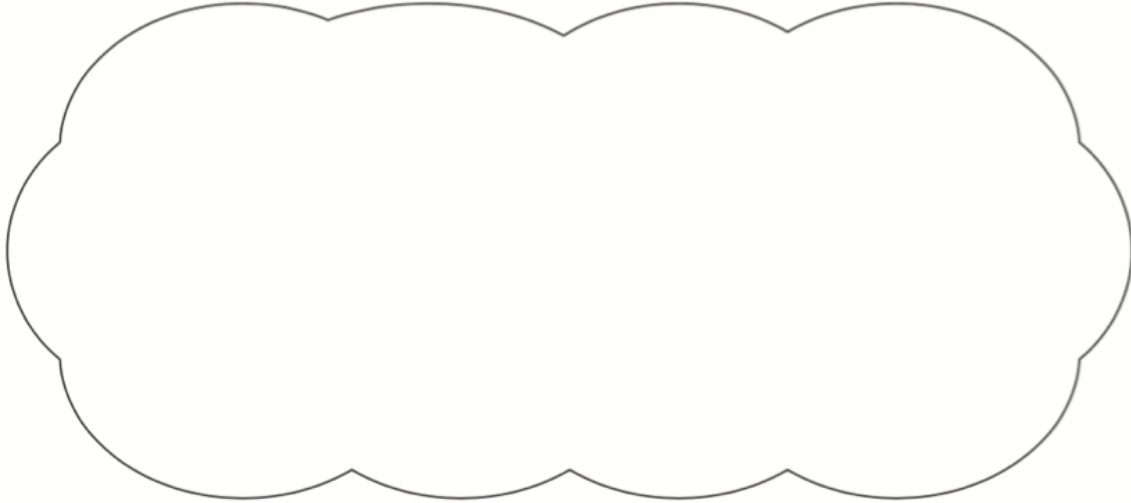
Is it true that a four-sided shape is **always** a square?

Circle **Yes** or **No**.



Yes / No

Explain how you know.

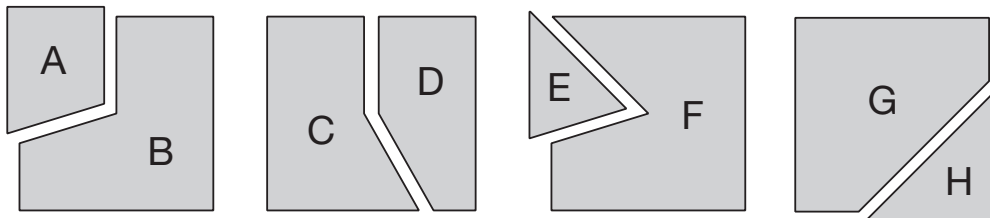


[1 mark]

7

Each of these four squares has been cut into two new shapes.

[2010]



Write the letters of all the new shapes that are **hexagons**.



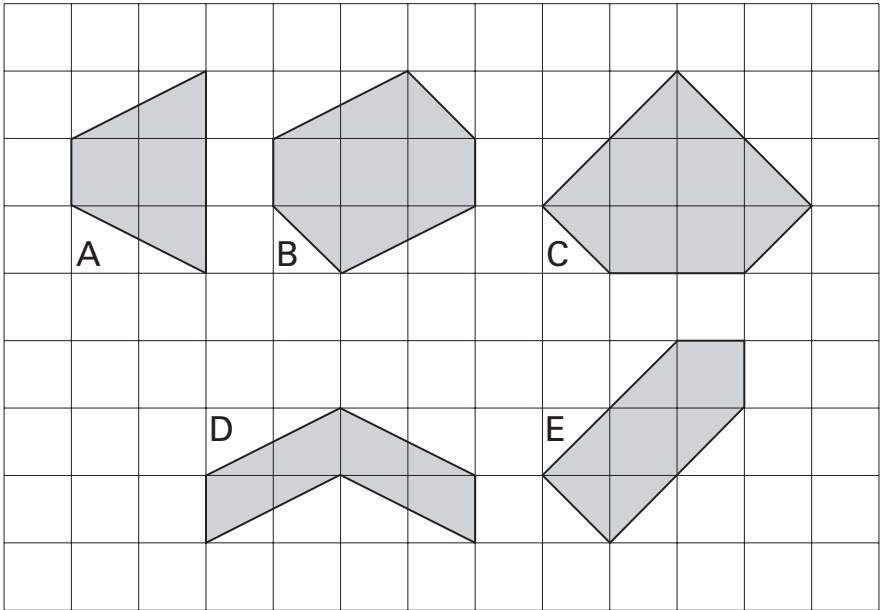
Write the letters of all the new shapes that are **pentagons**.



[2 marks]

Here are some shaded shapes on a square grid.

[2005]



Write the letters of the **two** shapes which are hexagons.



..... and

Write the letters of the **two** shapes which have **right angles**.



..... and

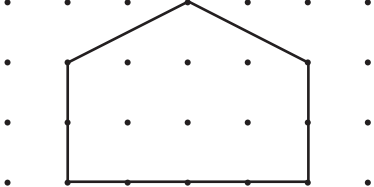
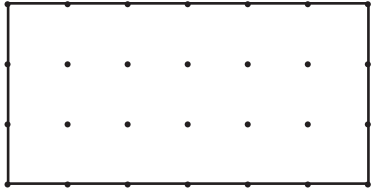
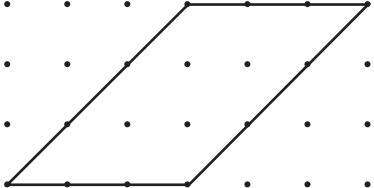
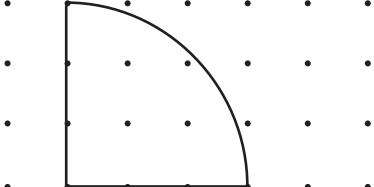
[2 marks]

Put ticks (✓) and crosses (✗) on the chart to complete it correctly.

[2006]

One has been done for you.



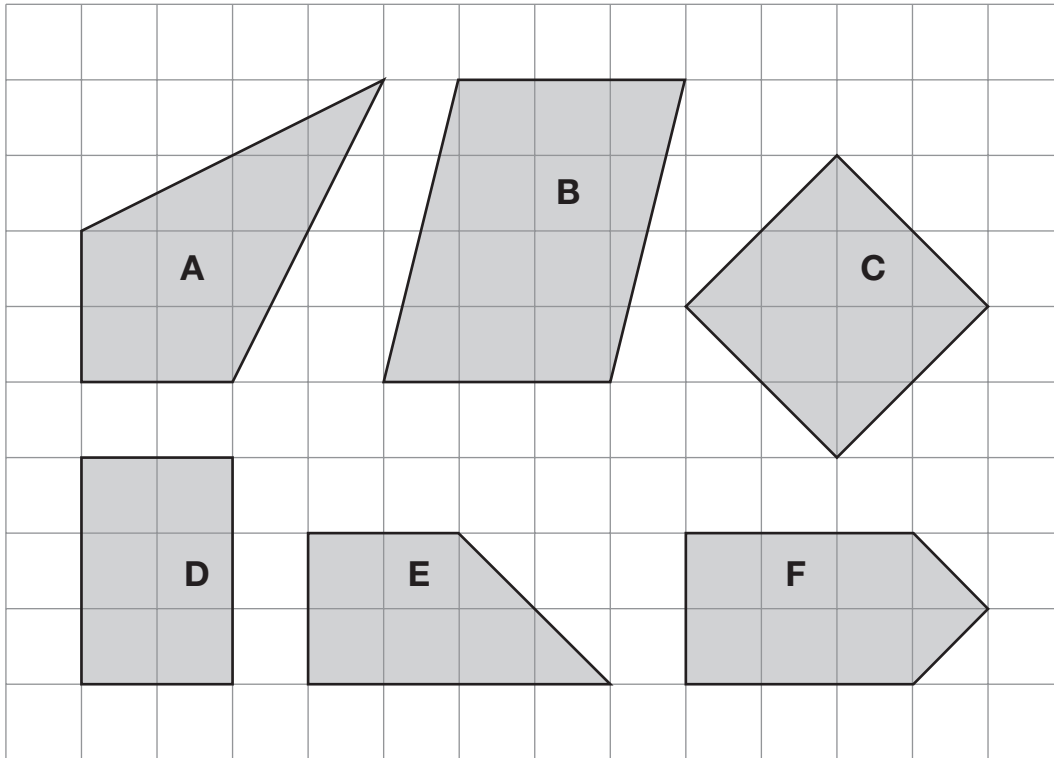
Shape	It is a quadrilateral	It has one or more right angles
	✗	✓
		
		
		

[2 marks]

10

Look at these shapes.

[2007]



Complete the sentences below.

One has been done for you.

 A is a kite

 C is not a quadrilateral

 D has only 2 right angles

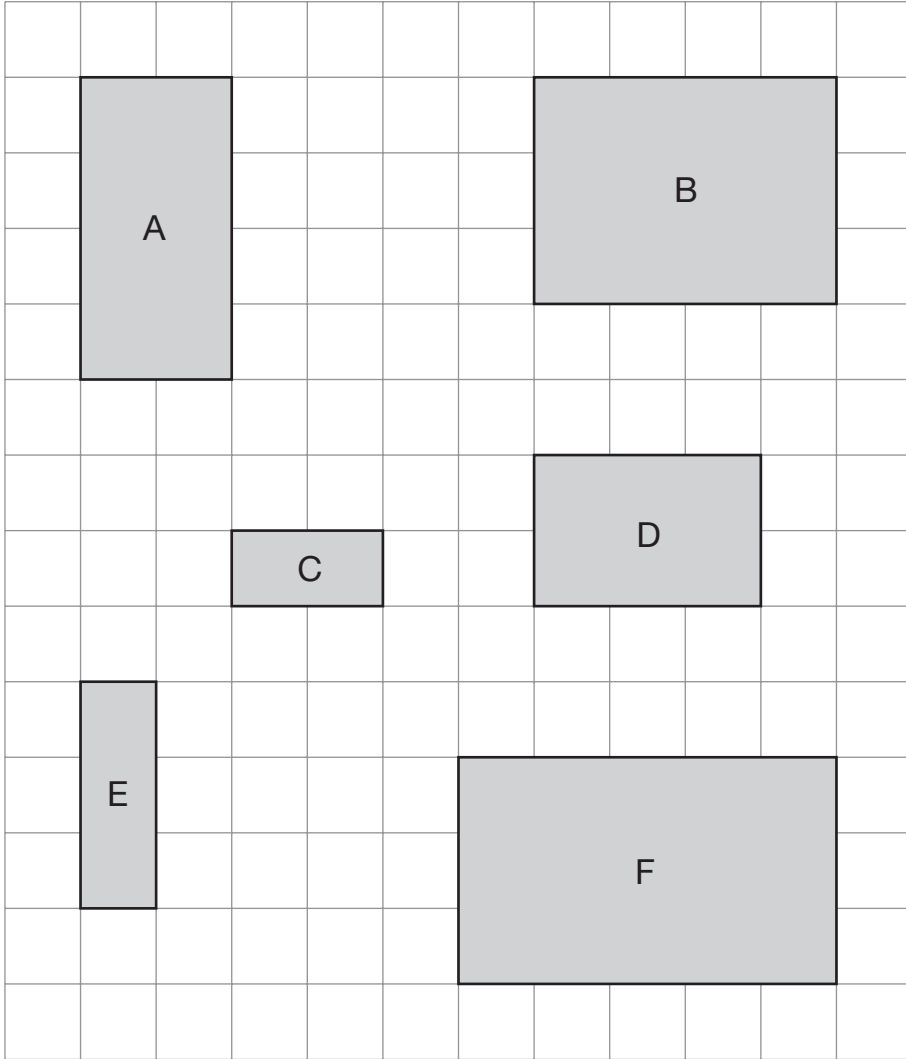
 E has 2 acute angles

[2 marks]

11

Here are six rectangles on a grid.

[2008]



Which **two** rectangles fit together, without overlapping, to make a **square**?

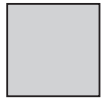


_____ and _____

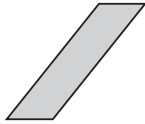
[1 mark]

Here are six quadrilaterals with their mathematical names.

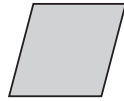
[2009]



square



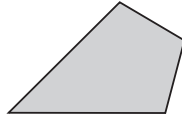
parallelogram



rhombus



oblong



kite



trapezium

Lara chooses one of the quadrilaterals.

She says,

***'It has two acute angles.
All four sides are the same length.'***

Which quadrilateral did Lara choose?



Stefan chooses one of the quadrilaterals.

He says,

***'It has more than one obtuse angle.
It has no parallel sides.'***

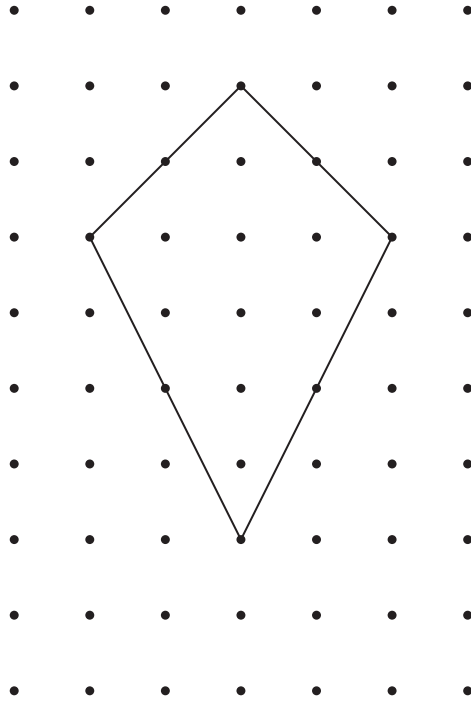
Which quadrilateral did Stefan choose?



[2 marks]

Here is a shape on a grid.

[2014]



For each statement, put a tick (✓) if it is true.
Put a cross (✗) if it is not true.



The shape is a quadrilateral.

The shape has 2 lines of symmetry.

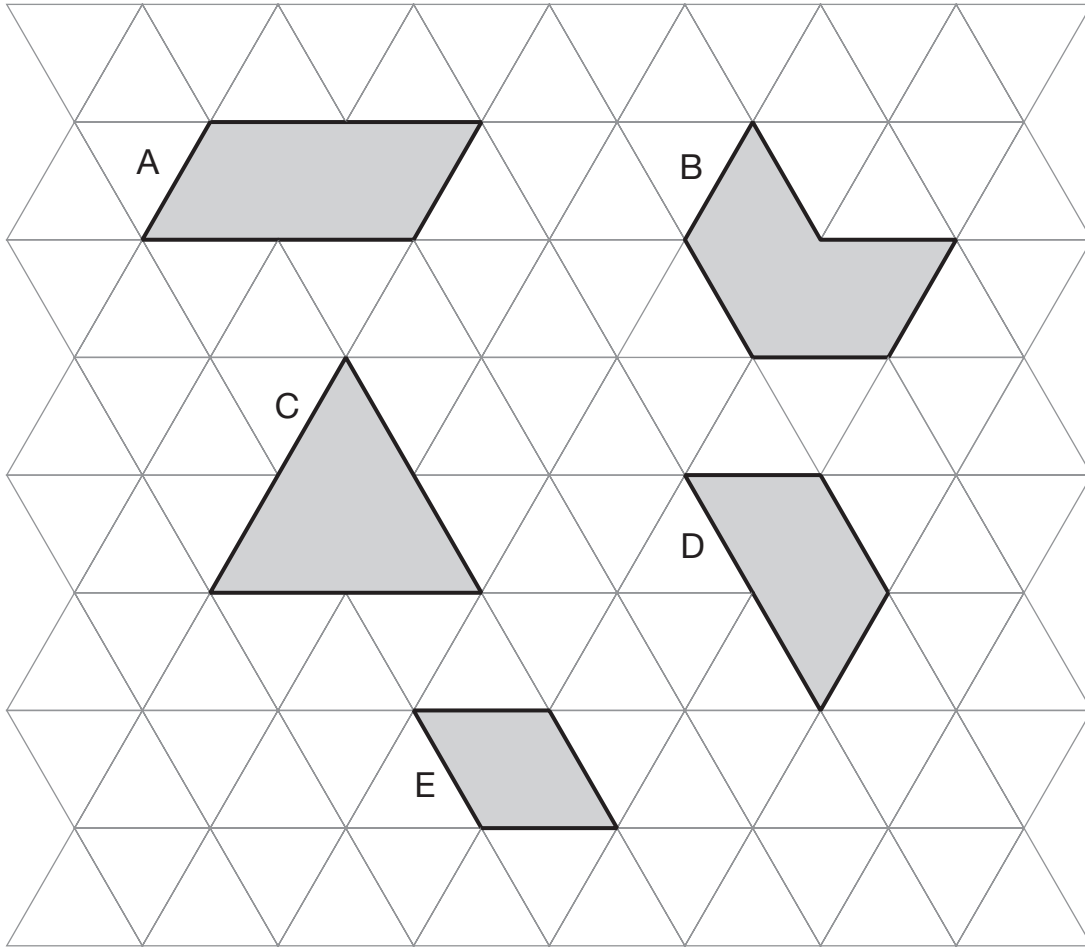
The shape is a parallelogram.

The shape has one right angle.

[2 marks]

Here are five shapes made from equilateral triangles.

[2011]



Write the letter of the shape that is a **rhombus**.



Write the letter of the shape that has only **one** pair of parallel sides.



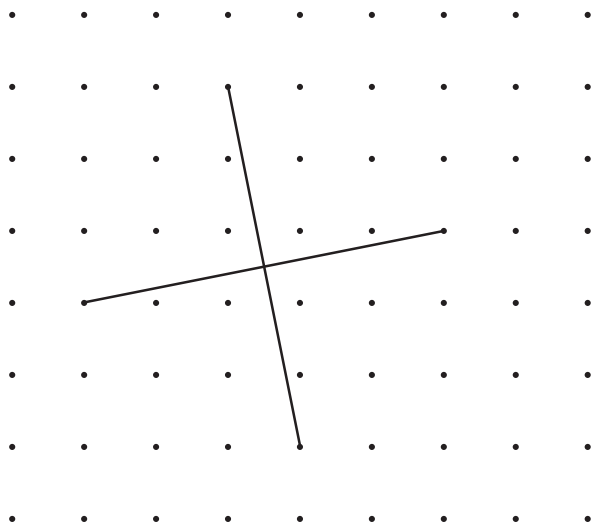
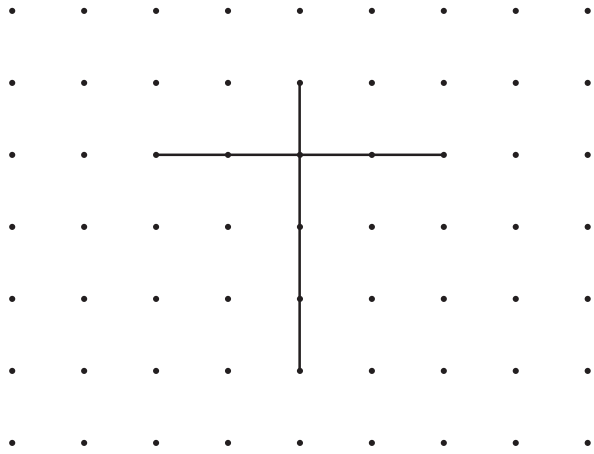
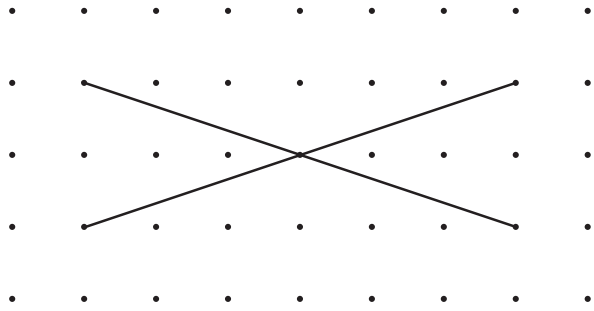
[2 marks]

15

[2003]

These diagrams show the **diagonals** of three **quadrilaterals**.

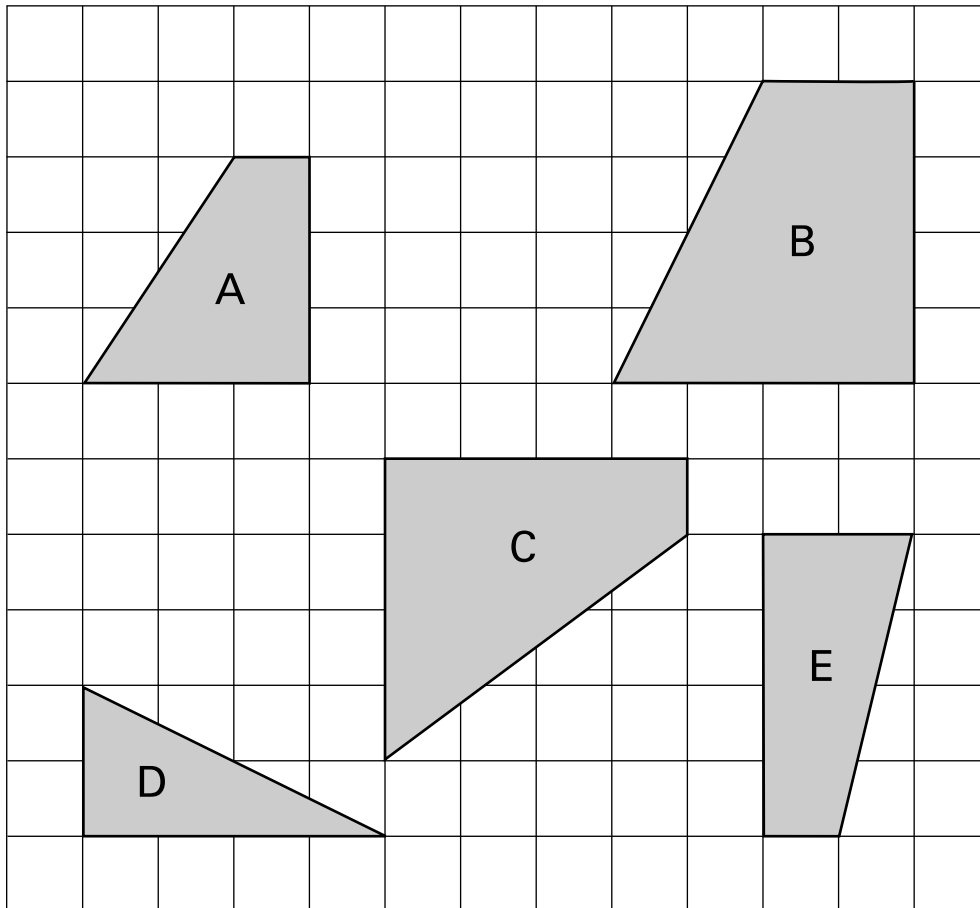
Write the names of the quadrilaterals in the boxes.



[3 marks]

Here are five shapes on a square grid.

[2001]



Which **two** shapes fit together to make a **square**?

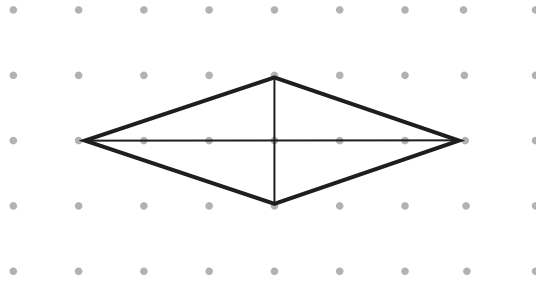


..... and

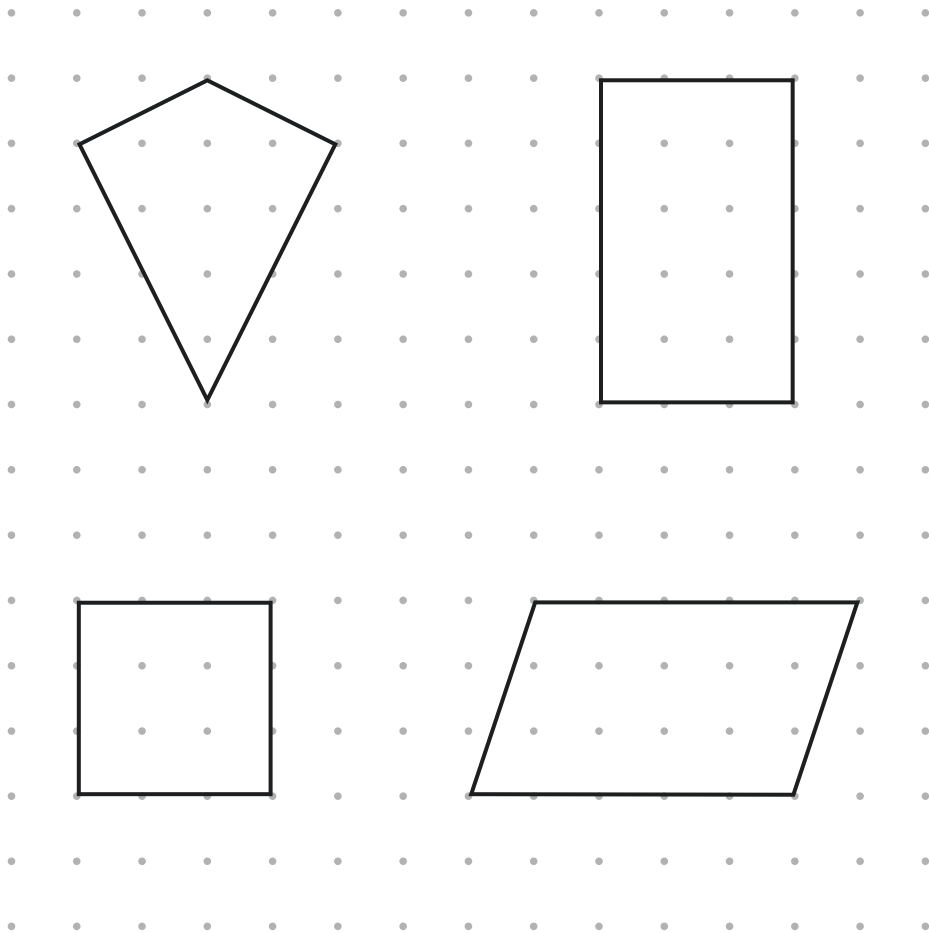
[1 mark]

The diagonals of this quadrilateral cross at right angles.

[2016]



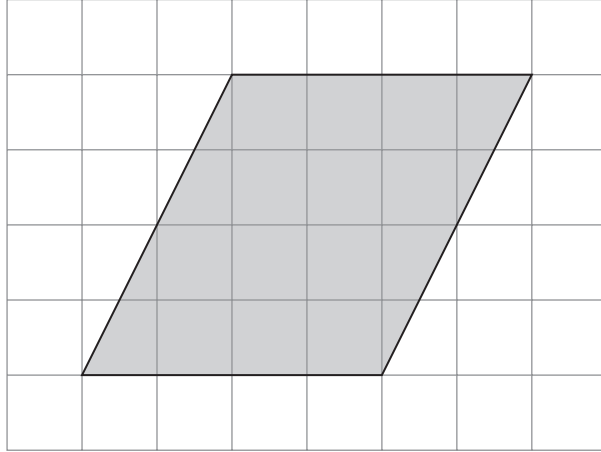
Tick **all** the quadrilaterals that have diagonals which cross at right angles.



[2 marks]

Look at the shaded shape on the square grid.

[Extra]



For each statement below, tick (✓) to show if it is True or False.

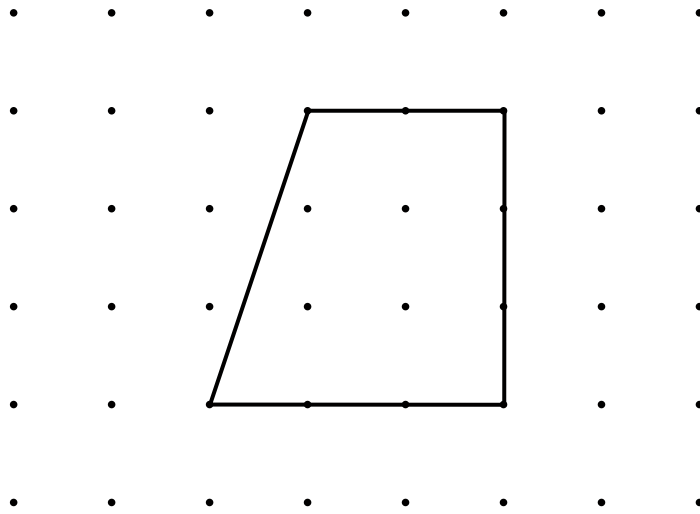
	True	False
The shaded shape is a quadrilateral.	<input type="checkbox"/>	<input type="checkbox"/>
The shaded shape has four equal sides.	<input type="checkbox"/>	<input type="checkbox"/>
The shaded shape has four equal angles.	<input type="checkbox"/>	<input type="checkbox"/>
The shaded shape has two pairs of parallel sides.	<input type="checkbox"/>	<input type="checkbox"/>

[2 marks]

19

Look at the shape drawn on the square grid.

[Extra]



For each statement below, tick (✓) True or False.



	True	False
The shape has exactly 2 right angles.	<input type="checkbox"/>	<input type="checkbox"/>
The shape has 2 pairs of parallel lines.	<input type="checkbox"/>	<input type="checkbox"/>
The shape has one line of symmetry.	<input type="checkbox"/>	<input type="checkbox"/>
The shape is a quadrilateral.	<input type="checkbox"/>	<input type="checkbox"/>

[2 marks]

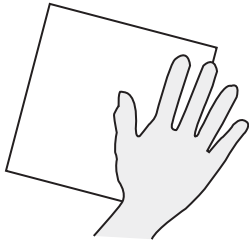
Here are some **regular** 2-D shapes.

[Extra]

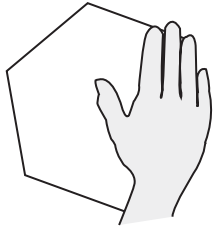
A hand hides part of each one.

Match each **regular** shape to its name.

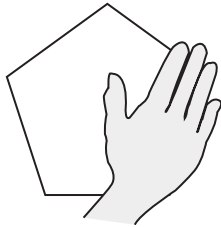
One has been done for you.



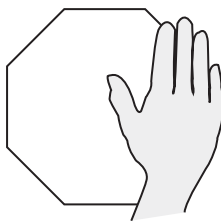
pentagon



square



octagon



hexagon

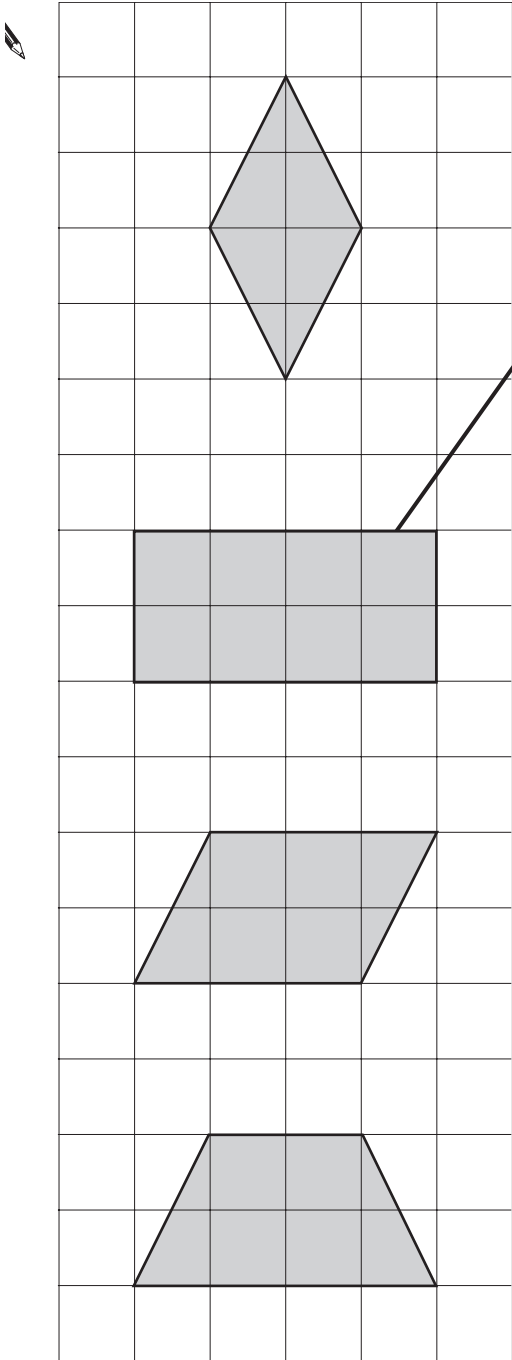
[2 marks]

21

Match each quadrilateral to the correct description.

[Extra]

One has been done for you.



2 pairs of sides equal in length.
4 right angles.

Only 1 pair of parallel sides.

Opposite sides are parallel.
It has no lines of symmetry.

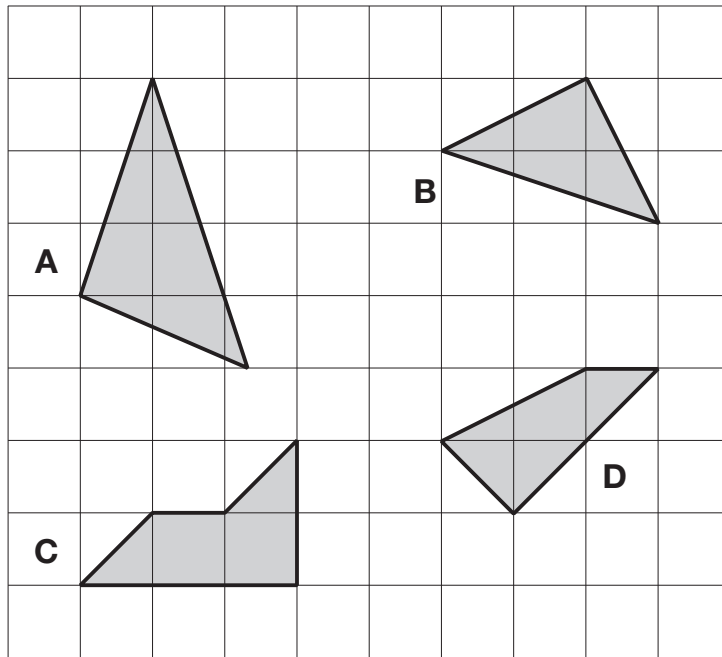
4 sides of equal length.
Opposite angles are equal.

[2 marks]

22

Here are four shapes on a square grid.

[2014]



Write the letters of all the shapes that have exactly two sides which are equal in length.



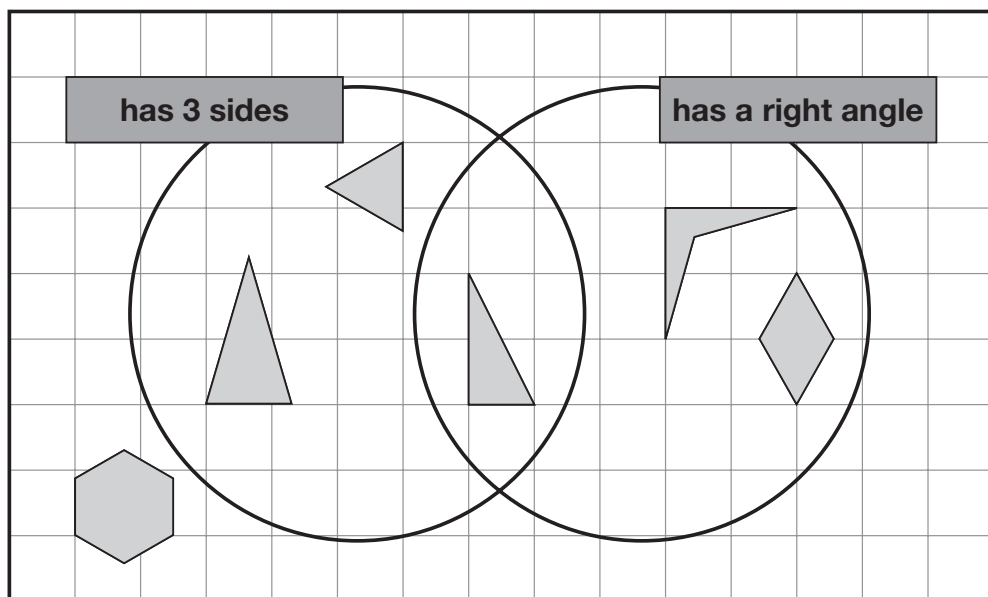
[1 mark]

23

Here is a diagram for sorting shapes.

[2008]

One of the shapes is in the wrong place. Put a cross (X) on it.



[1 mark]