



**BOOSTER WORKBOOK**

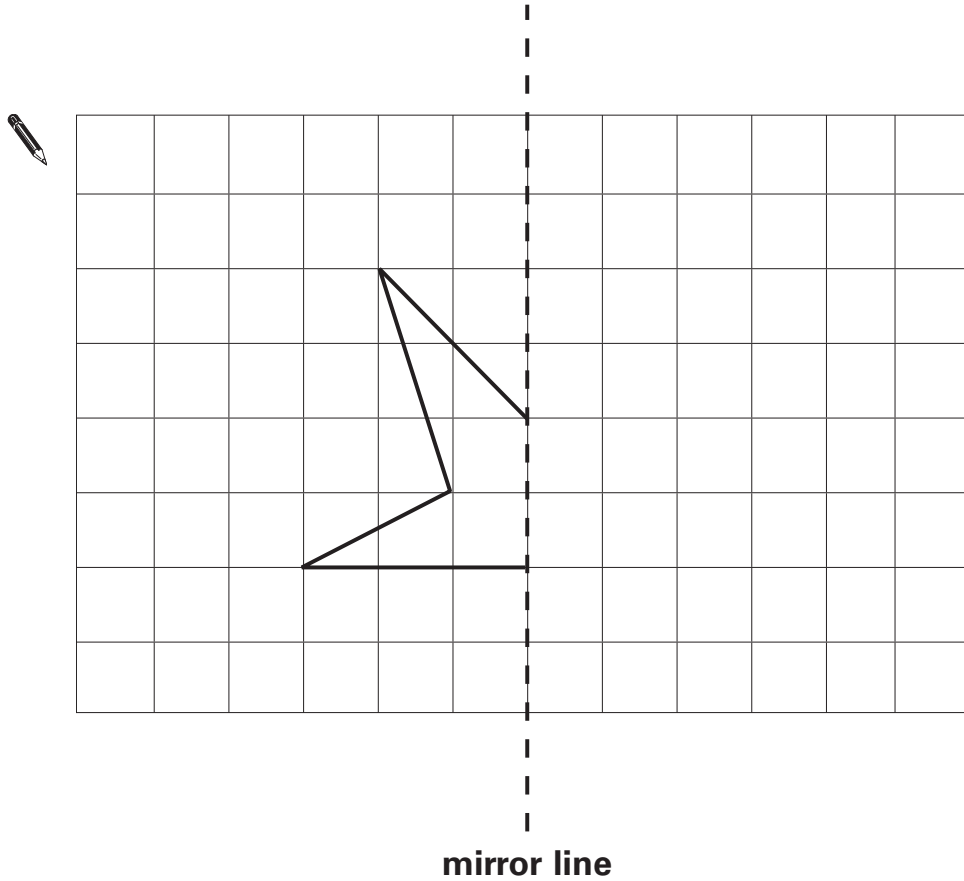
# **Geometry G2**

**Describe properties and  
classify shapes including  
symmetry**

1

Complete the diagram below to make a shape that is symmetrical about the mirror line.

Use a ruler.

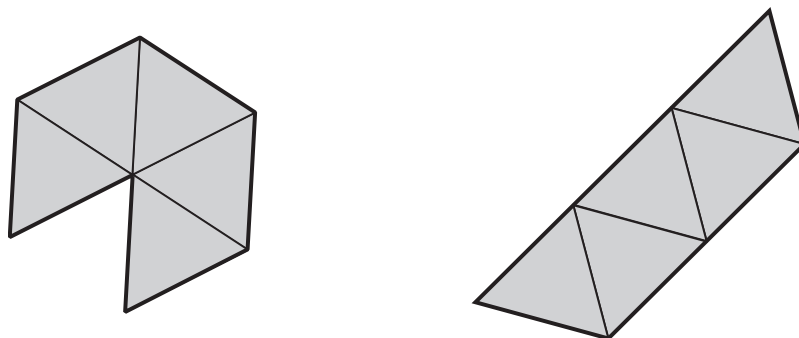


2

These two shapes are made from equilateral triangles.

Draw **one** line of symmetry on each shape.

Use a ruler.

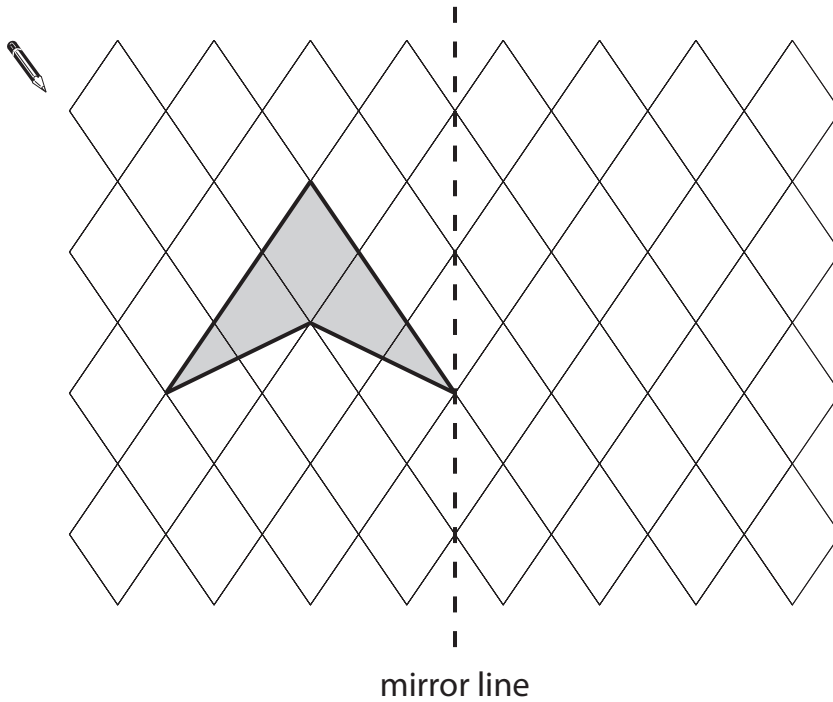


1 mark

3

Draw the reflection of the shaded shape in the mirror line.

Use a ruler.

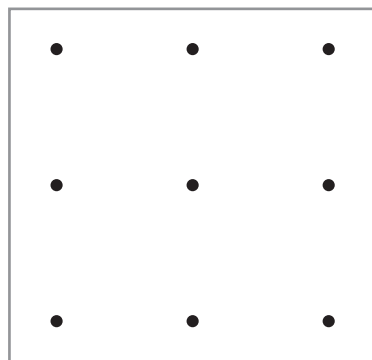


1 mark

4

On the grid join dots to make a triangle which does **not** have a **right angle**.

Use a ruler.

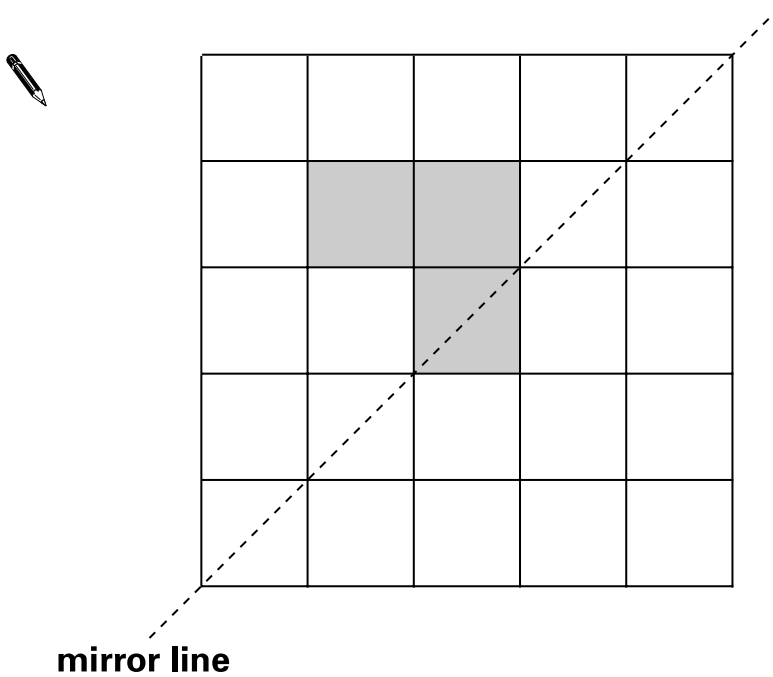


1 mark

5

Shade in **two more squares** to make this design symmetrical about the mirror line.

You may use a mirror or tracing paper.



1 mark

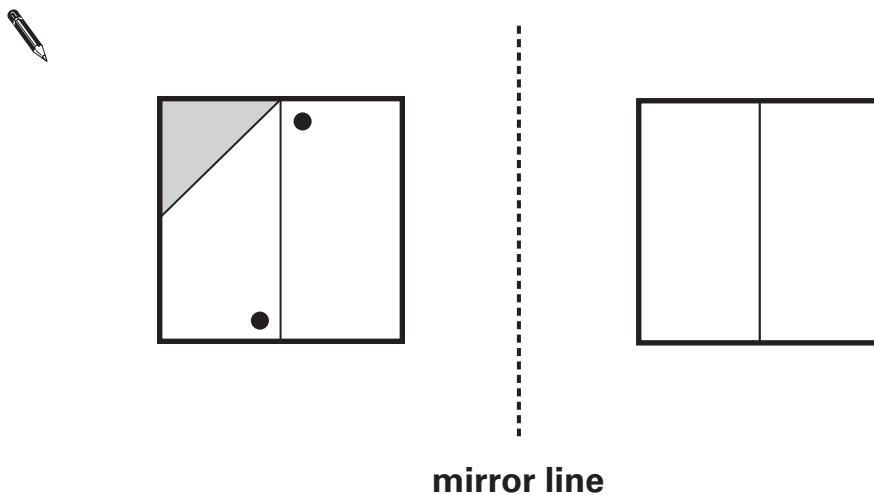
6

Here is a square with a design on it.

The square is reflected in the mirror line.

Draw the missing triangle and dots on the reflected square.

You may use a mirror or tracing paper.

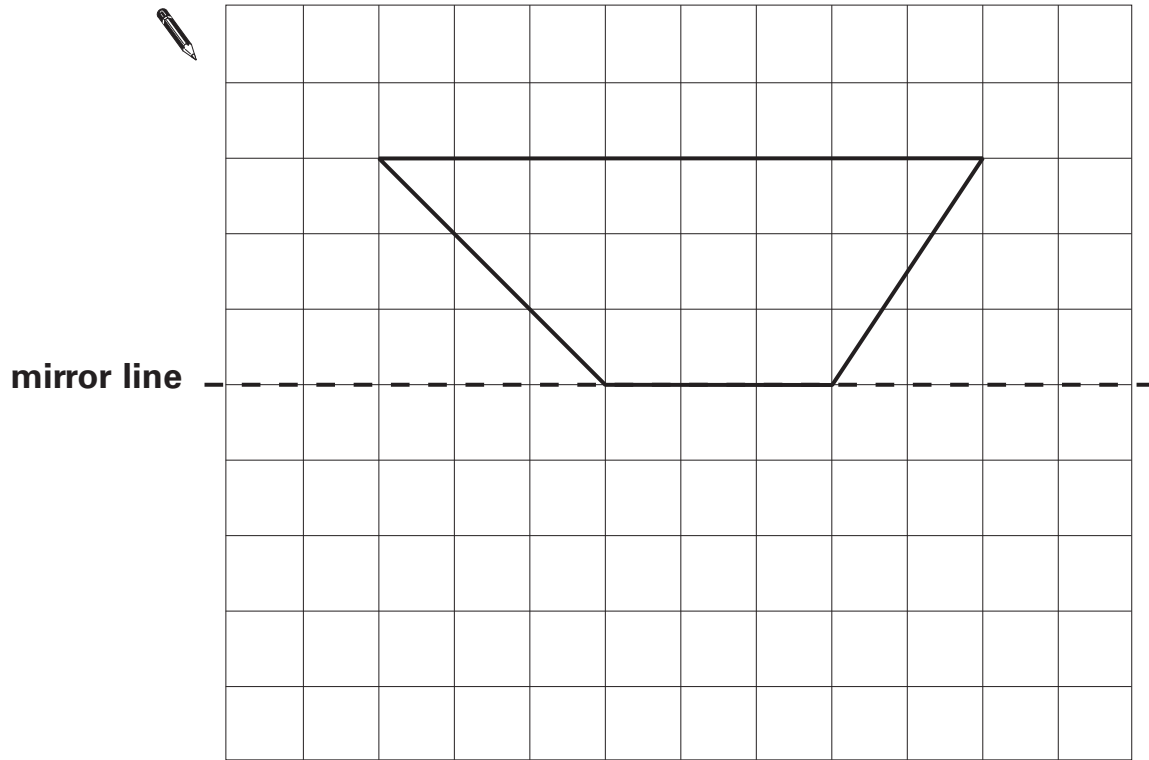


1 mark

7

Complete the diagram below to make a shape that is symmetrical about the mirror line.

Use a ruler.

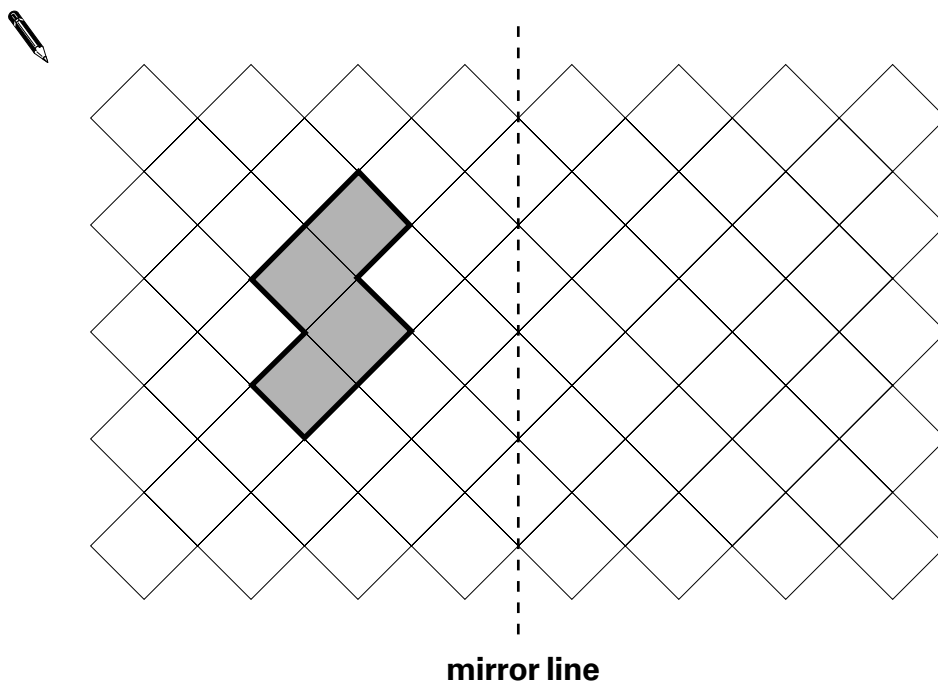


1 mark

8

Draw the **reflection** of the shaded shape in the mirror line.

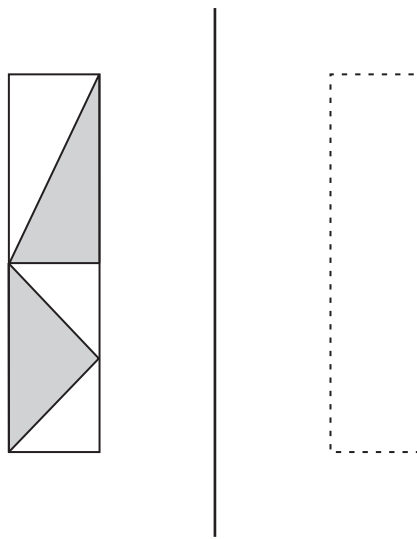
You may use a mirror or tracing paper.



1 mark

9

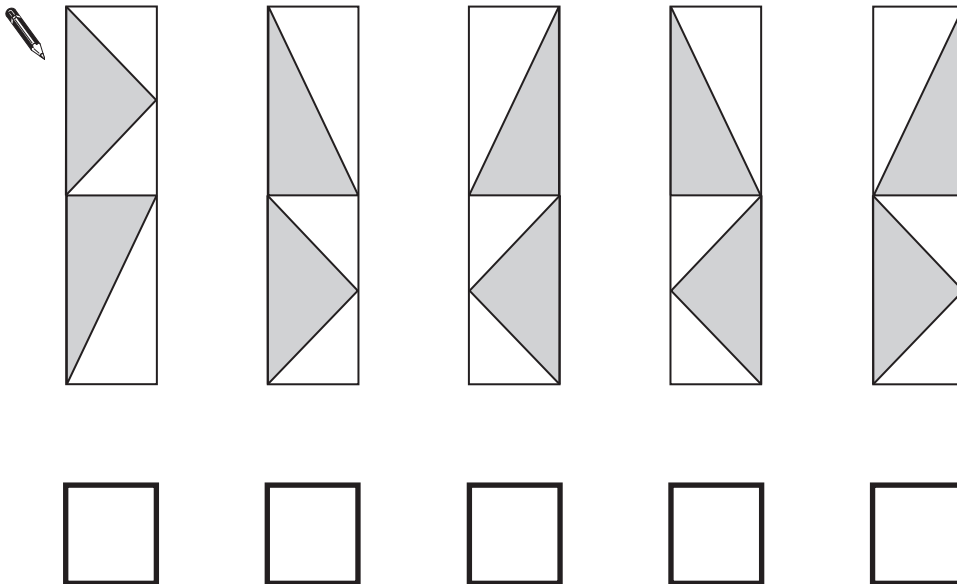
Here is a design and a mirror line.



mirror line

Which **one** of the designs below is the reflection of the design in the mirror line?

Tick (✓) the correct design.

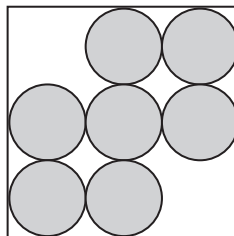
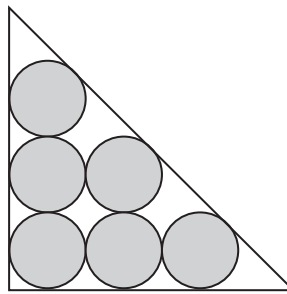
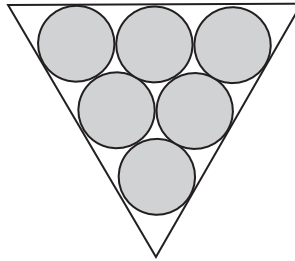


1 mark

10

Use a ruler to draw **one** line of symmetry on **each** of these designs.

You may use a mirror or tracing paper.

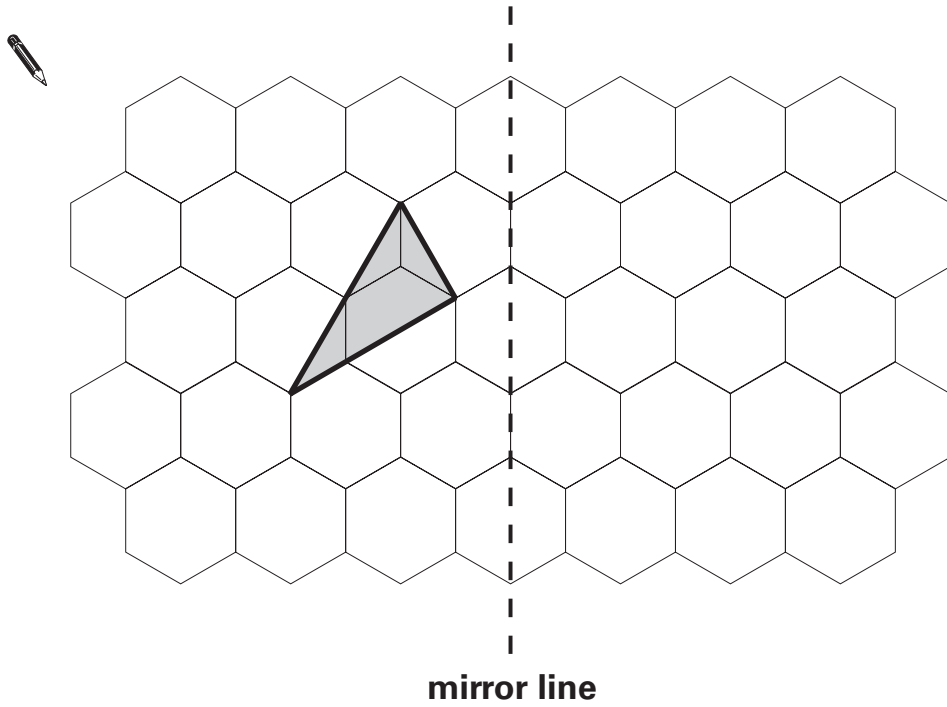


2 marks

11

This grid is made of hexagons.

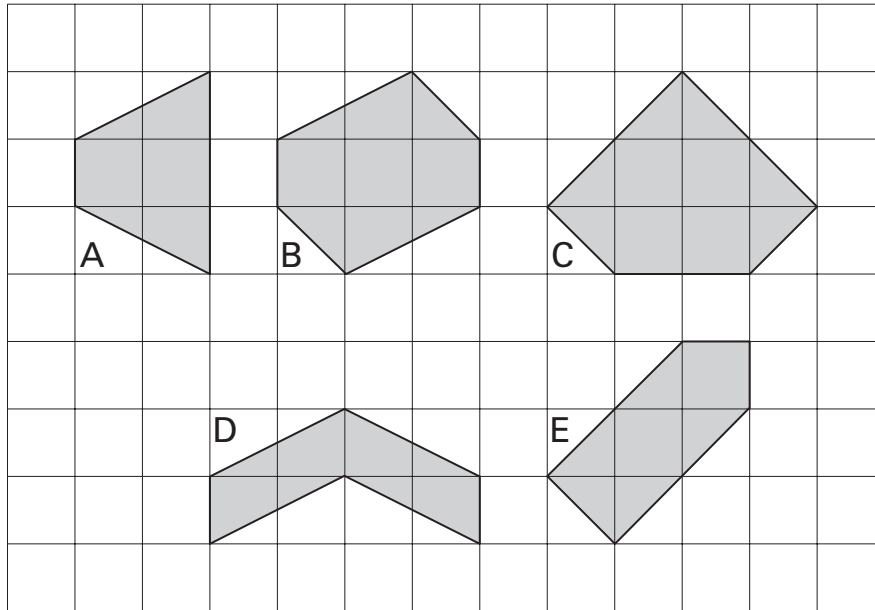
Draw the reflection of the shaded shape on the grid.



1 mark



Here are some shaded shapes on a square grid.



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



..... and .....

1 mark

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



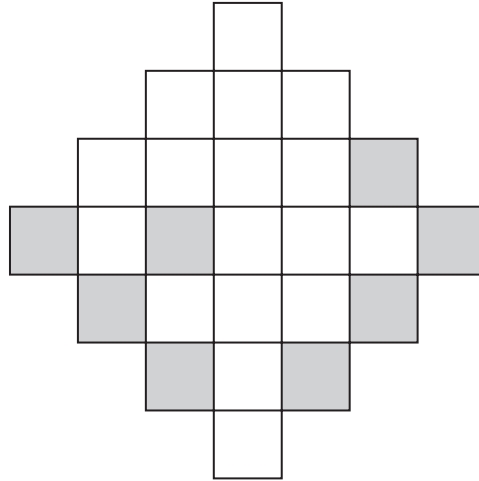
..... and .....

1 mark

13

Here is a grid with eight squares shaded in.

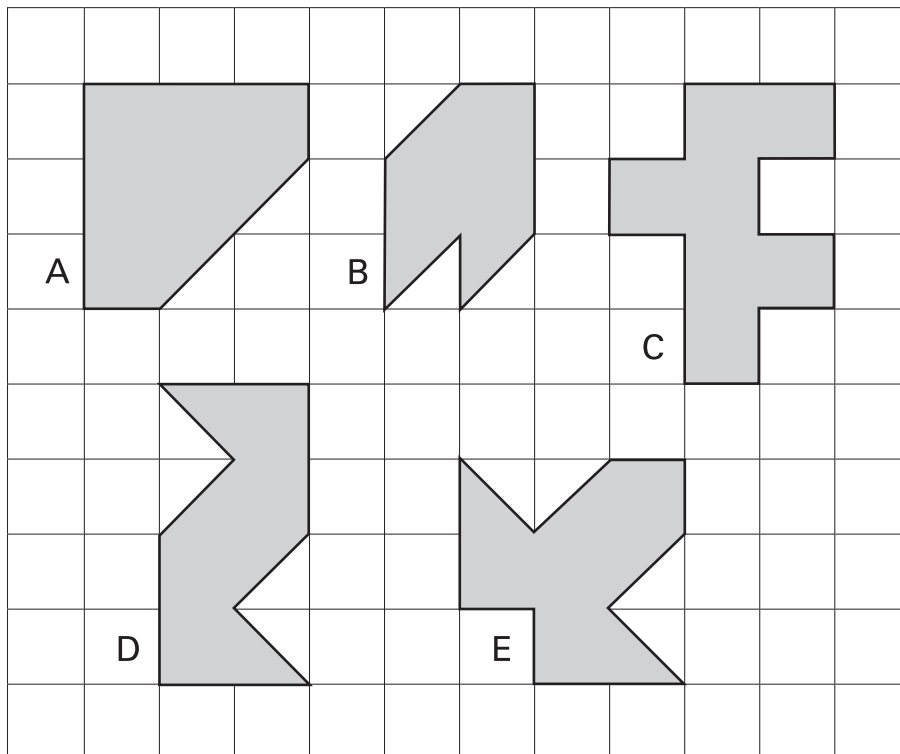
Shade in **two more** squares to make a symmetrical pattern.



1 mark

14

Here are five shapes on a square grid.



Write the letters of the **two** shapes which have a line of symmetry.



..... and .....


2 marks

**15**

This table shows information about four solid shapes.

Complete the table.

One has been done for you.



	number of <b>flat</b> surfaces	number of <b>curved</b> surfaces
sphere	0	1
cone		
cuboid		
cylinder		

2 marks

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

One has been done for you.

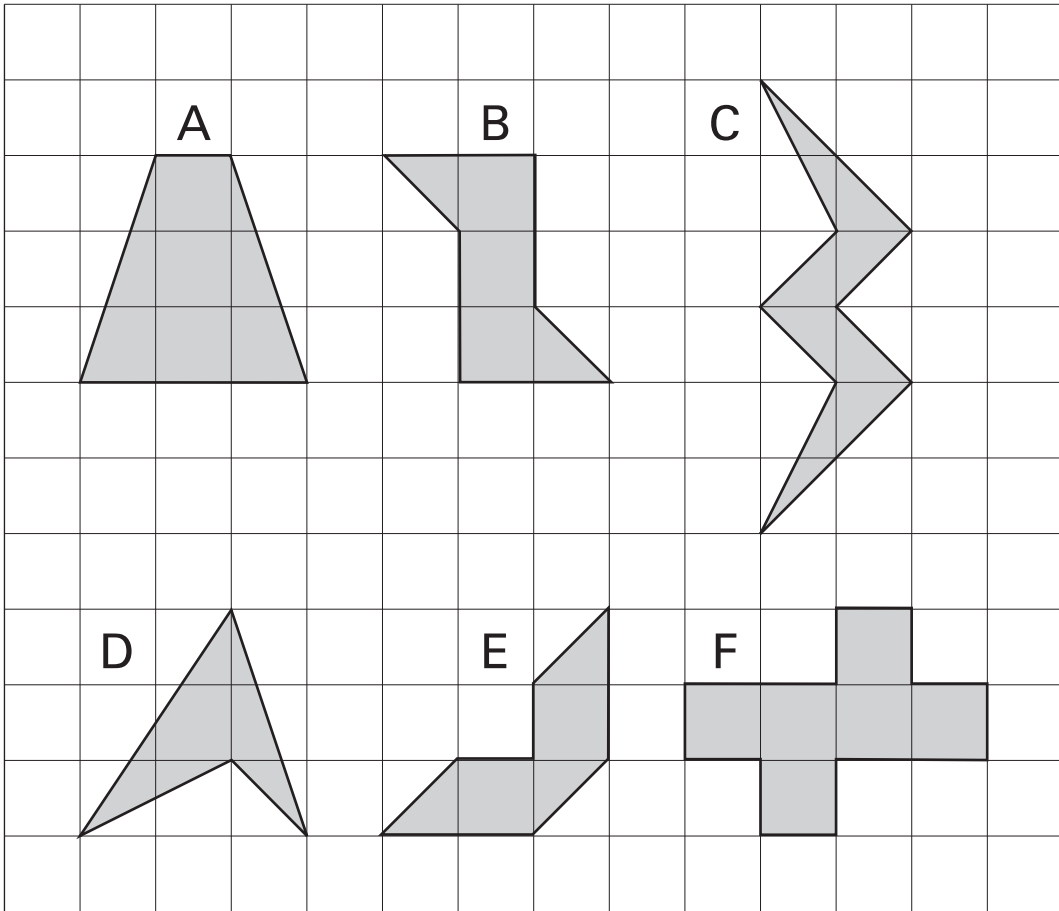


Shape	It is a quadrilateral	It has one or more right angles
	✗	✓

1 mark

1 mark

Here are some shaded shapes on a grid.



Which **three** shapes have **reflective symmetry**?

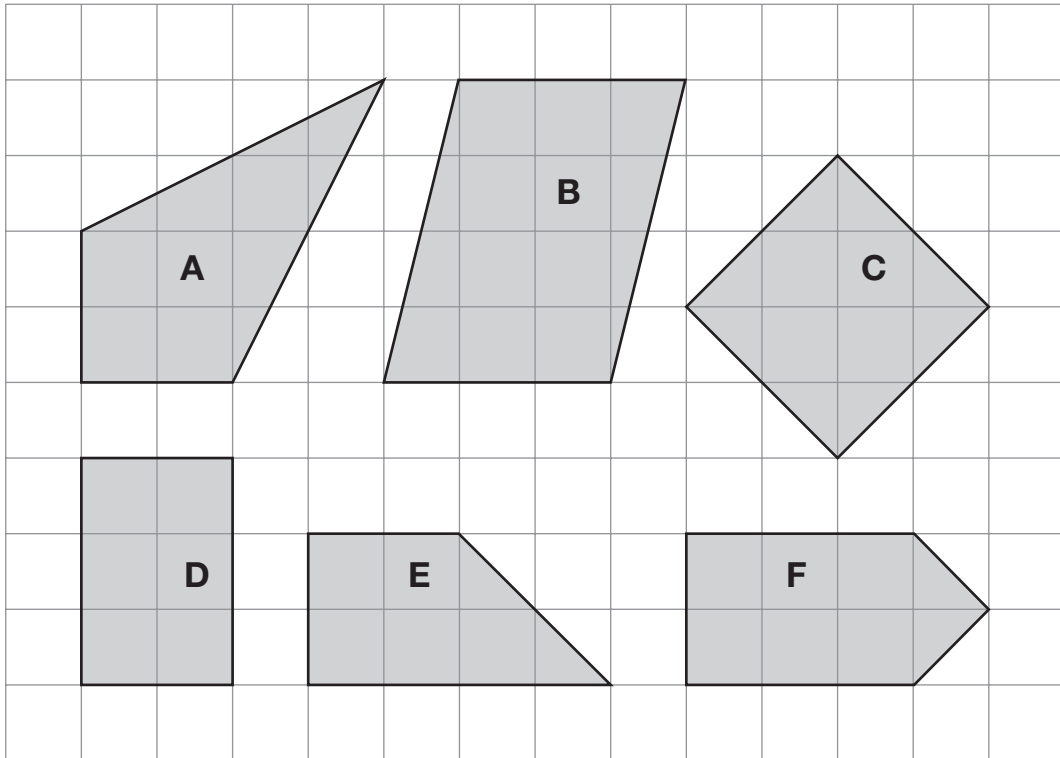
You may use a mirror or tracing paper.



.....

2 marks

Look at these shapes.



Complete the sentences below.

One has been done for you.

    A     is a kite



                     is not a quadrilateral

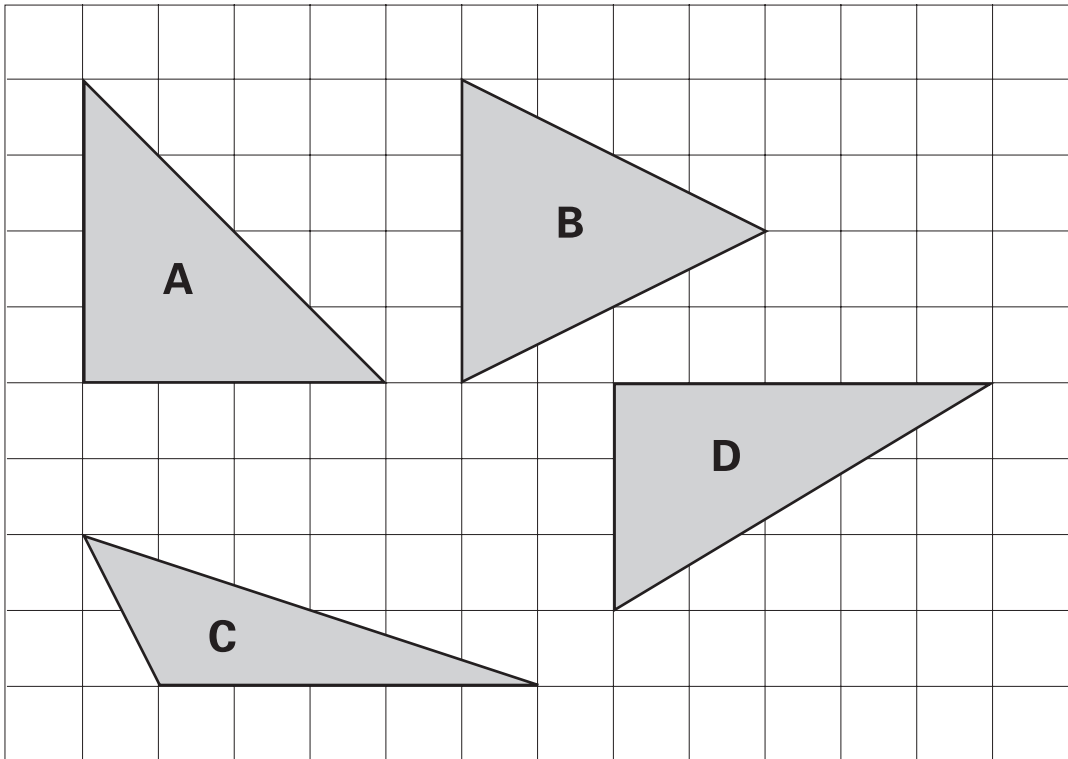
                     has only 2 right angles

                     has 2 acute angles

2 marks

19

Here are four triangles drawn on a square grid.



Write the letter for each triangle in the correct region of the sorting diagram.

One has been done for you.



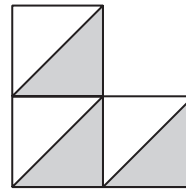
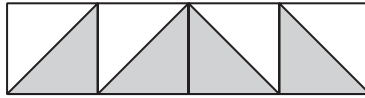
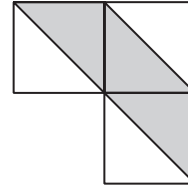
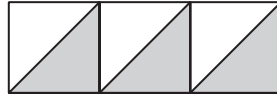
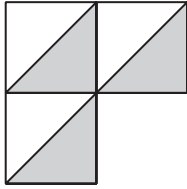
	has a <b>right</b> angle	has an <b>obtuse</b> angle	has 3 <b>acute</b> angles
is isosceles	<b>A</b>		
is <b>not</b> isosceles			

2 marks

20

Here are five patterns.

For each pattern put a tick (✓) if it has a line of symmetry.  
Put a cross (✗) if it does not.



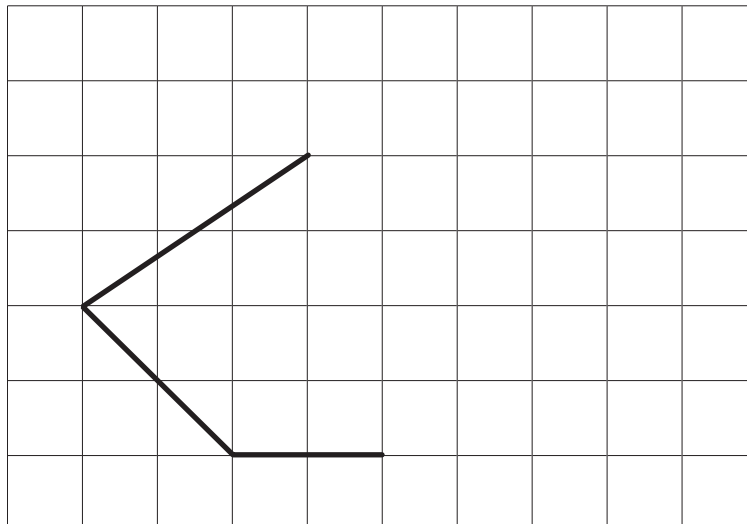
2 marks

21

Here is part of a shape on a square grid.

Draw **two more** lines to make a shape which has a line of symmetry.

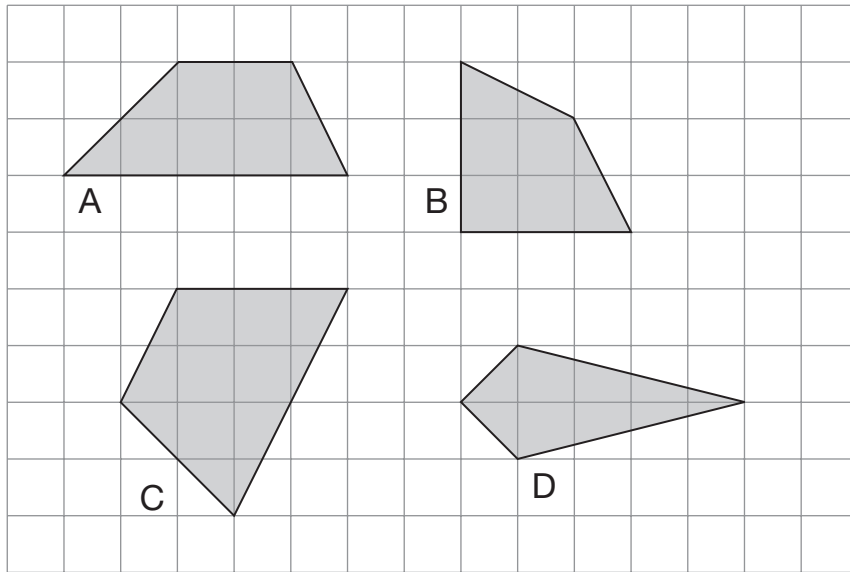
Use a ruler.



1 mark



Here are some shapes on a grid.



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



\_\_\_\_\_

1 mark

23

Here are four statements.

For each statement put a tick (✓) if it is **possible**.  
Put a cross (✗) if it is **impossible**.



A triangle can have 2 acute angles.

A triangle can have 2 obtuse angles.

A triangle can have 2 parallel sides.

A triangle can have 2 perpendicular sides.

2 marks

24

Jamie draws a triangle.

He says,

***'Two of the three angles in my triangle are obtuse'.***

Explain why Jamie **cannot** be correct.

A large, empty, cloud-shaped area with a scalloped border, intended for the student to write their explanation.

1 mark