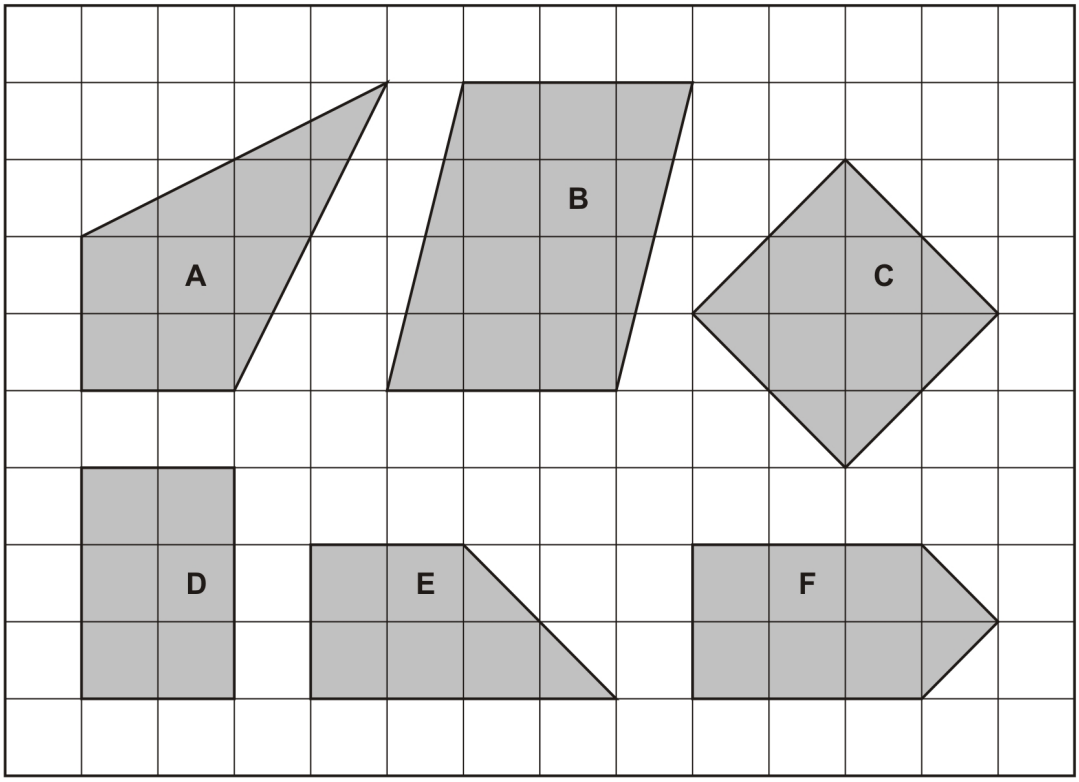
1 Look at these shapes.



Complete the sentences below.

One has been done for you.

_____**A**_____ is a kite

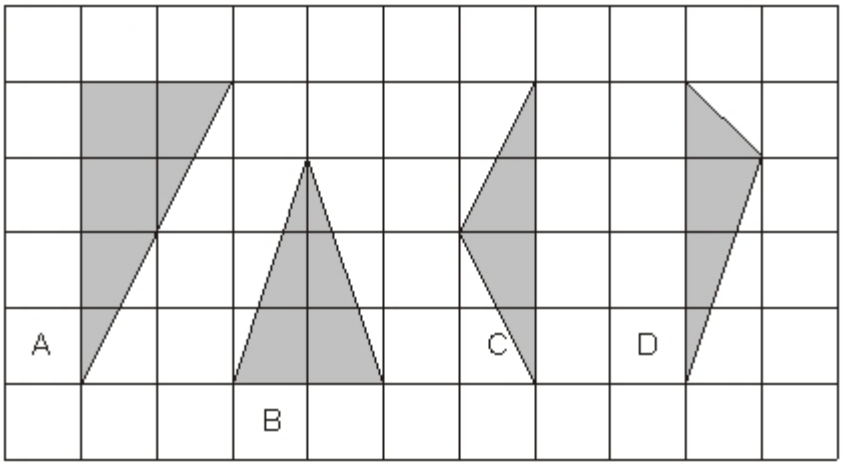
_____ is not a quadrilateral

_____ has only 2 right angles

_____ has 2 acute angles

2 marks

2 Here are four triangles on a square grid.



Write the letters of the **two isosceles** triangles.

☐ and ☐

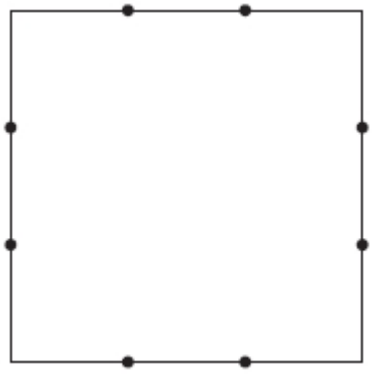
1 mark

3 This square has two dots on each side.

The dots are equally spaced.

Join two dots to divide the square into **two equal parts**.

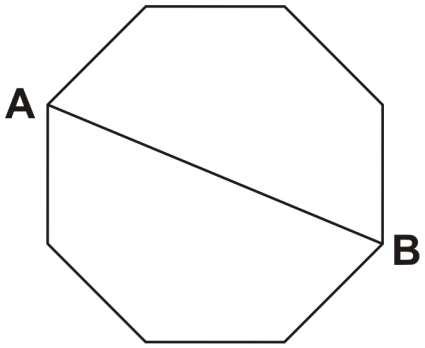
Use a ruler.



1 mark

4 Here is a regular octagon with two vertices joined to make the line AB.

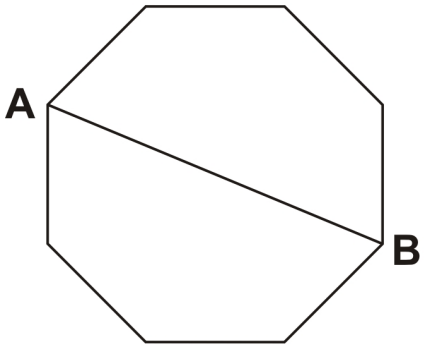
Join two other vertices to draw **one** line that is **parallel** to the line AB.



1 mark

Here is the octagon again.

Join two vertices to draw **one** line that is **perpendicular** to the line AB.

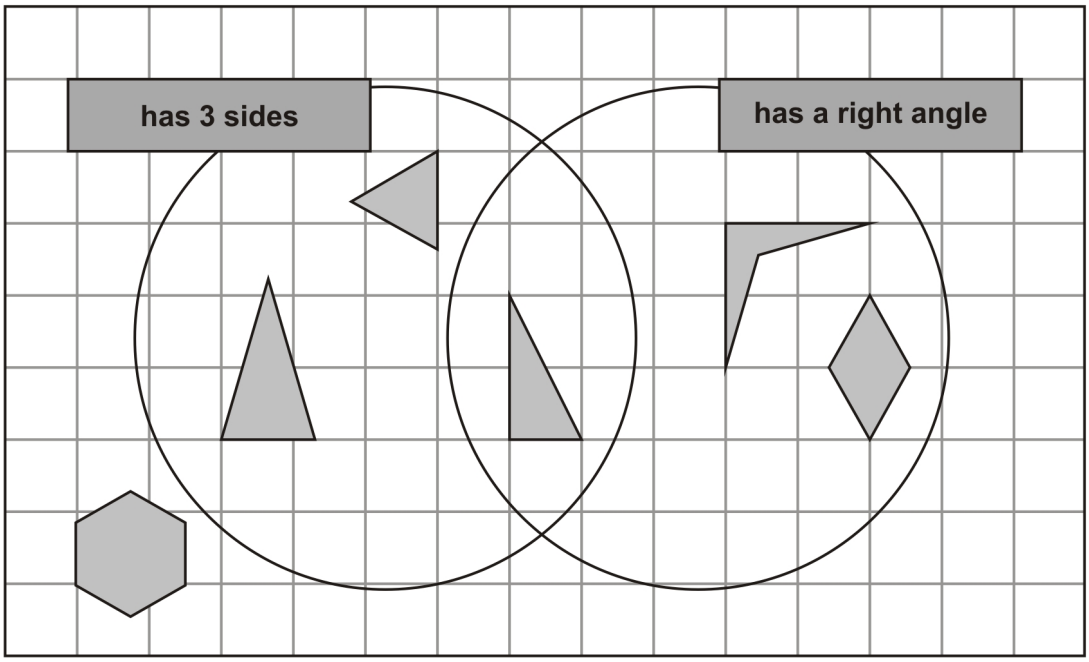


1 mark

5 Here is a diagram for sorting shapes.

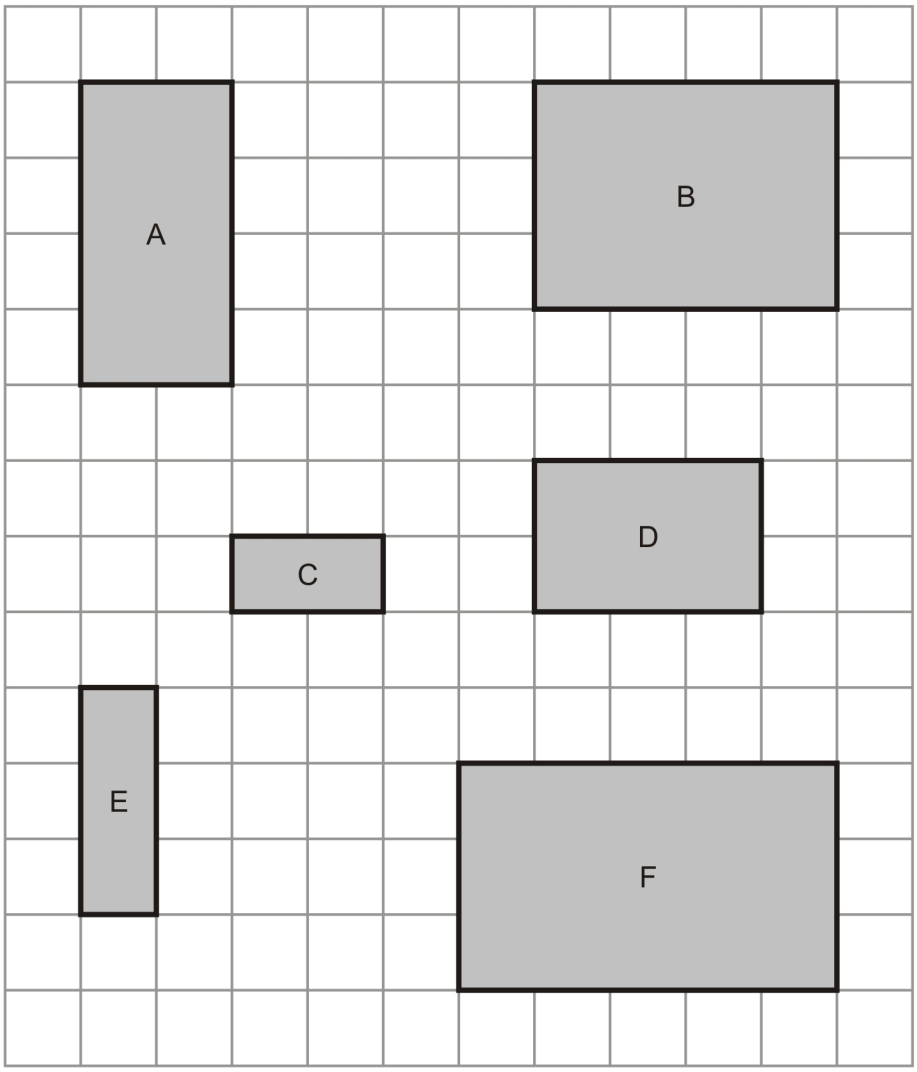
One of the shapes is in the wrong place.

Put a cross (✗) on it.



1 mark

6 Here are six rectangles on a grid.



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

☐ and ☐

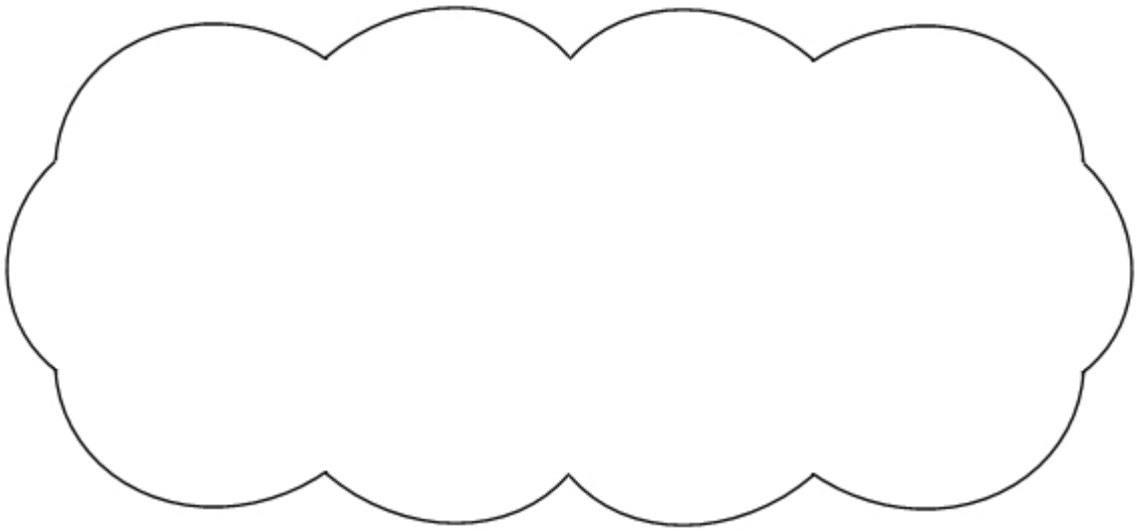
1 mark

7 A square always has four sides.

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

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

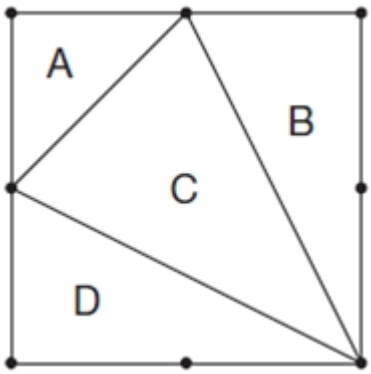
Explain how you know.



1 mark

8 This diagram shows a square with dots at the vertices and at the middle of each side.

The square is divided into four triangles, **A**, **B**, **C** and **D**.



Write the letters of all the triangles that have a **right angle**.

_____

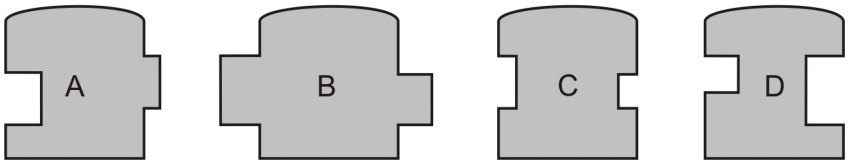
1 mark

Write the letters of all the triangles that have **two equal sides**.

_____

1 mark

9 Here are four shapes.

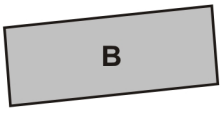
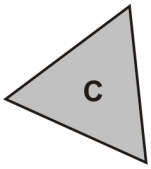
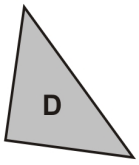


They can be fitted together in a straight line so that there are no gaps between them.

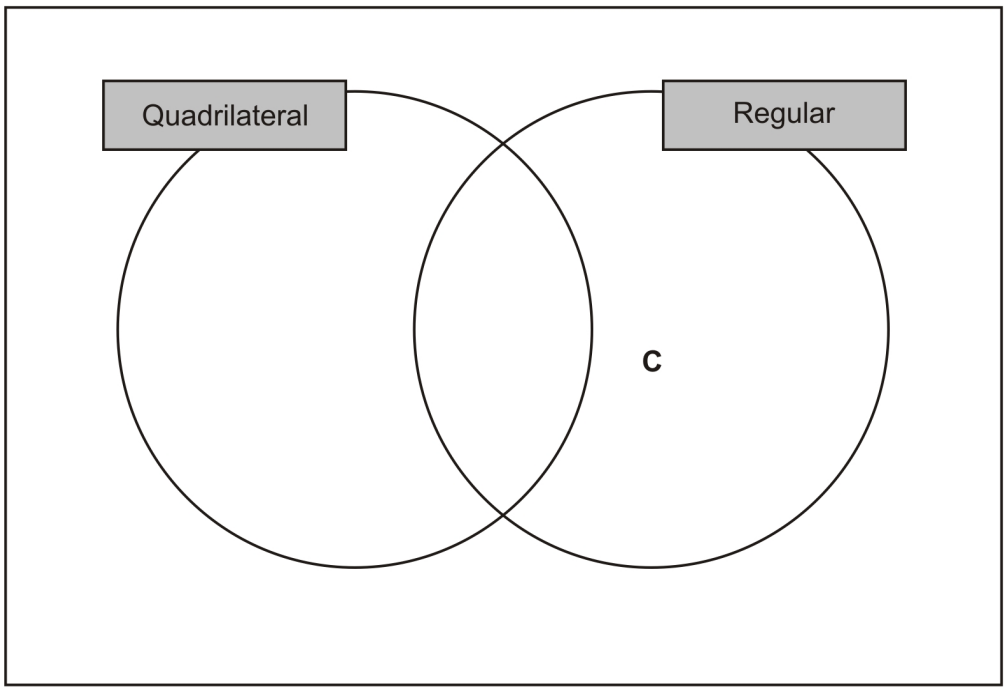
Write the order of the letters of the shapes when they all fit together.

1 mark

10 Here are four shapes in a Carroll diagram.

	Regular	Not regular
Quadrilateral		
Not a quadrilateral		

Use this information to write the letters **A**, **B** and **D** in the Venn diagram below.



2 marks

Mark schemes

1 Award **TWO** marks for all three letters in the correct order as shown:

F

E

B

If the answer is incorrect, award **ONE** mark for two of the three letters correct.

Up to 2

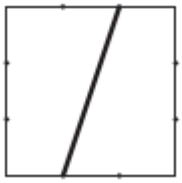
[2]

2 B **AND** C

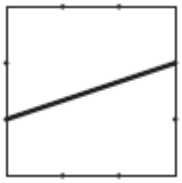
Answers may be given in either order.

[1]

3 Dots joined to divide square into two congruent parts, eg



OR



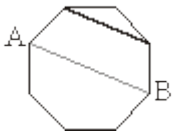
Accept slight inaccuracies in drawing.

Accept more than one answer if all are correct.

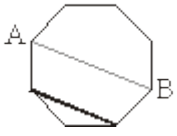
U1

[1]

4 (a) Two vertices joined as shown:



OR

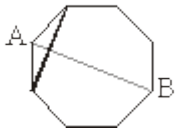


Accept slight inaccuracies in drawing provided the intention is clear.

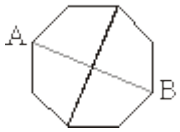
Accept two lines if both are correct.

1

(b)



OR

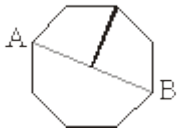


OR

Accept slight inaccuracies in drawing, provided the intention is clear.

Accept more than one line if all are correct.

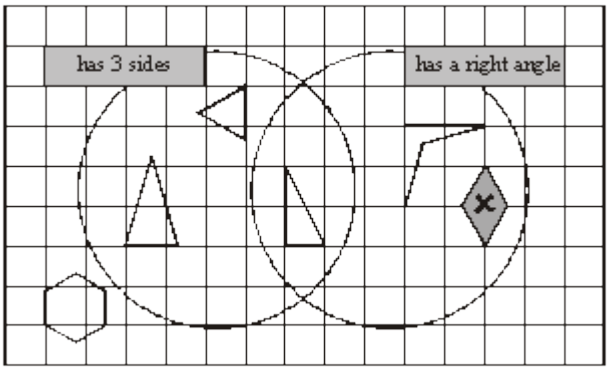
Accept a line perpendicular to AB, drawn from one vertex , which meets or crosses AB, eg



1

[2]

5 One shape crossed as shown:



Do not *award the mark if additional incorrect shapes are indicated.*

Accept alternative unambiguous indications of the correct shape, eg shape ticked or circled.

[1]

6 D **AND** E

Letters may be written in either order.

*Accept A **AND** A.*

*Accept C **AND** C.*

U1

[1]

7 An explanation which recognises that a quadrilateral must have particular properties to be a square, eg:

- 'It can only be a square if all the angles are right angles'
- 'It can only be a square if all the sides are equal'

OR

an explanation (or diagram) which recognises that there are quadrilaterals other than squares, eg:

- 'It could be a rectangle'
- 'A rhombus has four sides'
- 'It could be a kite or a trapezium or a parallelogram'
- 'It could be an oblong'
- 'The sides could be unequal'
- 'The angles might be different'
- 

No mark is awarded for circling 'No' alone.

***Do not** accept vague or incomplete explanations, eg:*

- *'It might not be a square'*
- *'Not all four-sided shapes are squares'*
- *'A four-sided shape is a quadrilateral'*
- *'It could be a diamond'.*

If 'Yes' is circled but a correct, unambiguous explanation is given, then award the mark.

U1

[1]

8 (a) A **AND** B **AND** D

Letters may be given in any order.

1

(b) A **AND** C

Letters may be given in any order.

1

[2]

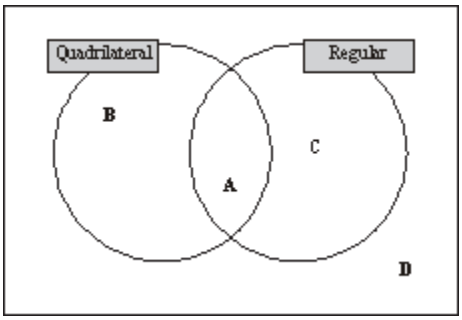
9 D B A C

Accept C A B D.

U1

[1]

10 Award **TWO** marks for the three letters written in the correct regions as shown:



If the answer is incorrect, award **ONE** mark for two letters written in the correct regions.

Do not *accept letters written in more than one region.*

Accept alternative unambiguous indications, eg lines drawn from the shapes to the appropriate regions of the diagram.

Accept unambiguous shapes drawn in the appropriate regions of the diagram.

Up to 2 (U1)

[2]