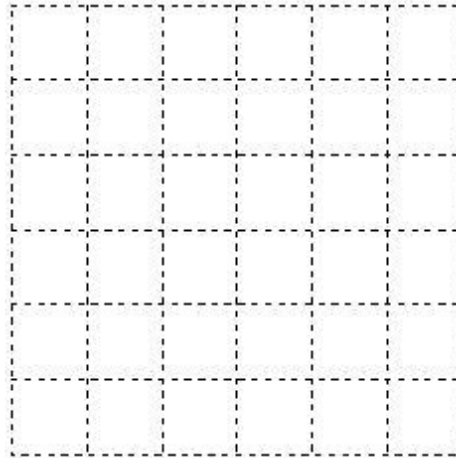


Q1.

Describing shapes

(a)

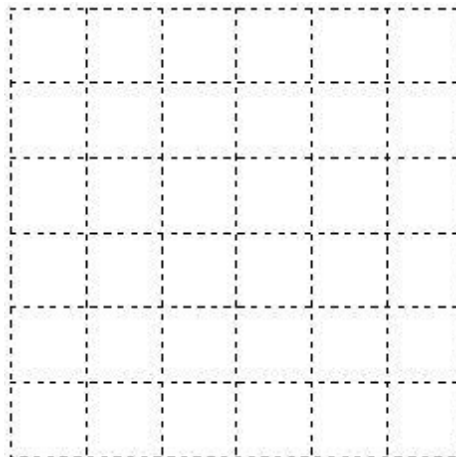
A shape has 4 right angles.
It has 4 straight sides.
All 4 sides are the same length.
Draw what the shape could be.



1 mark

(b)

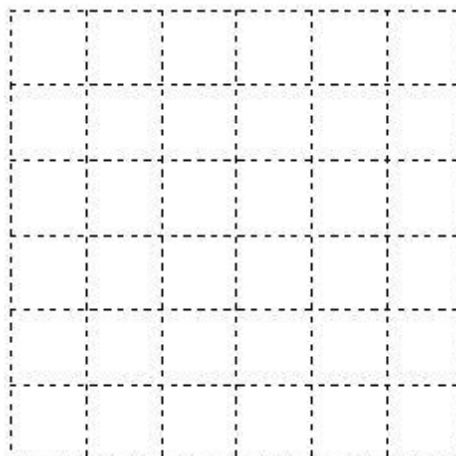
A **different** shape has 4 right angles.
It has 4 straight sides.
It has 2 pairs of parallel lines.
Draw what the shape could be.



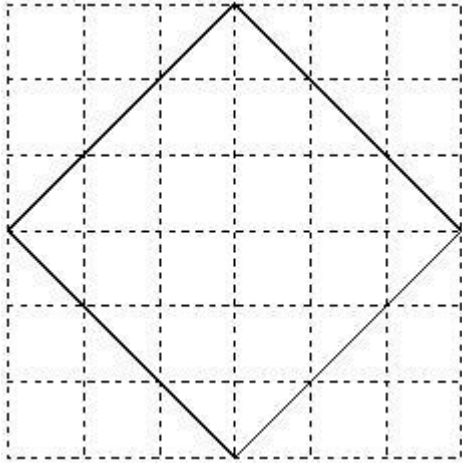
1 mark

(c)

A shape has no right angles.
It has 4 straight sides.
It has 2 pairs of parallel lines.
Draw what the shape could be.



(d) Look at this shape.



Fill in the gaps in the sentences below.

The shape has _____ right angles.

It has _____ straight sides.

It has _____ pairs of parallel lines.

_____ sides are the same length.

2 marks

Q2.

Join dots on the grid to make a quadrilateral that has **3 acute** angles.



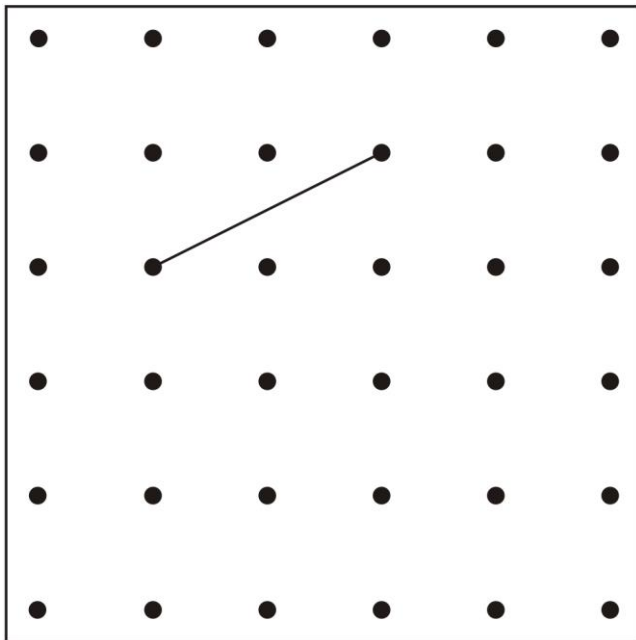
1 mark

Q3.

The line on the grid is one side of a **square**.

On the grid, draw the **other three sides** of the square.

Use a ruler.



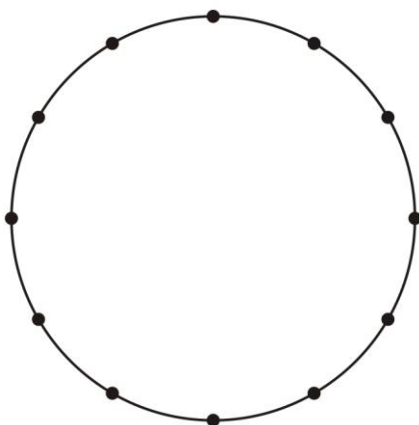
1 mark

Q4.

The twelve points on this circle are equally spaced.

Join four points to make a **square**.

Use a ruler.



1 mark

Q5.

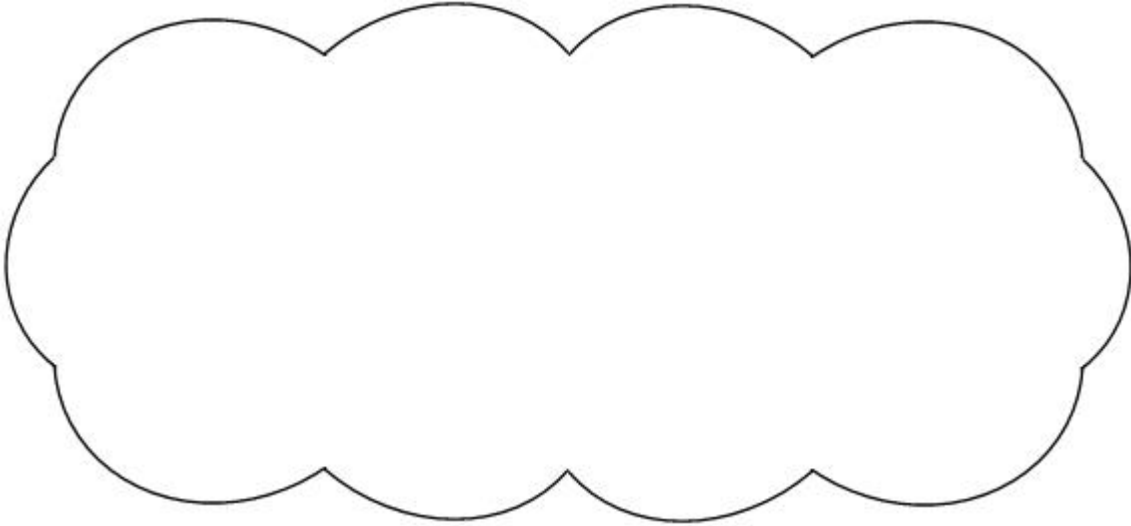
A square always has four sides.

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

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

Yes / No

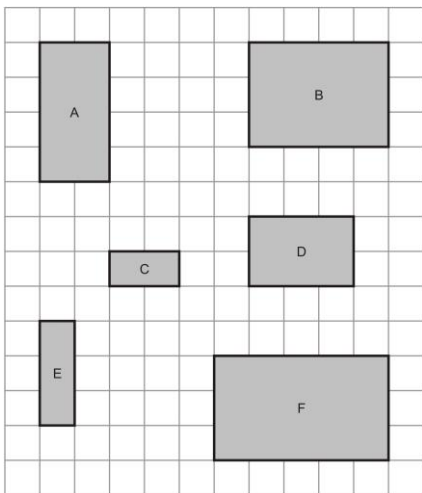
Explain how you know.



1 mark

Q6.

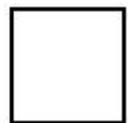
Here are six rectangles on a grid.



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



and

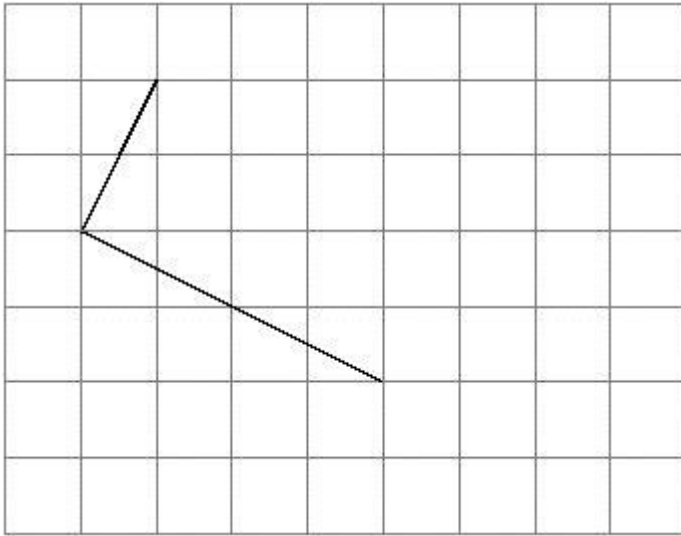


1 mark

Q7.

Draw **two more straight lines** to make a rectangle.

Use a ruler.

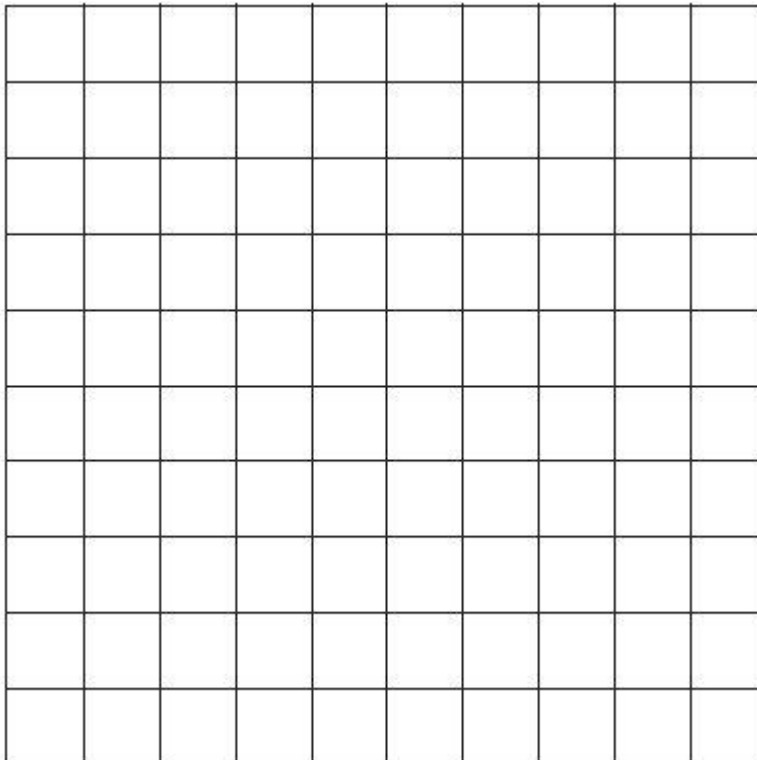


1 mark

Q8.

Here is a centimetre grid.

Draw a **rectangle** whose **longer sides** are **6 cm**



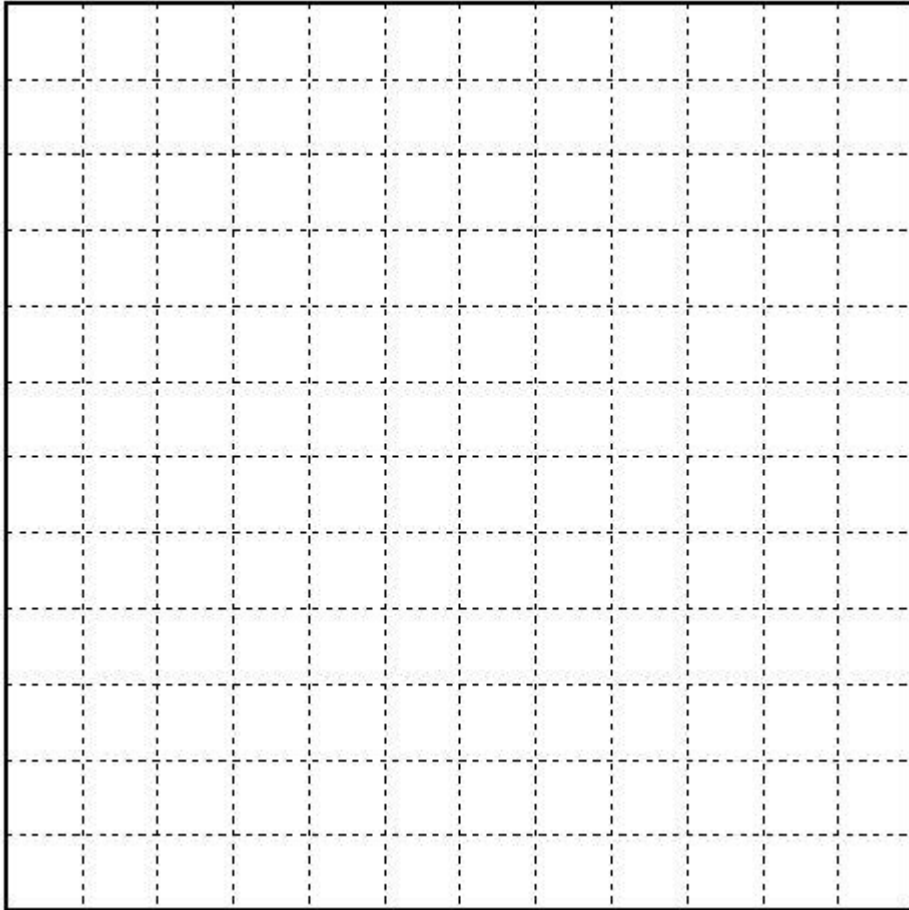
1 mark

Q9.

Here is a grid of centimetre squares.

On the grid draw a **quadrilateral**.

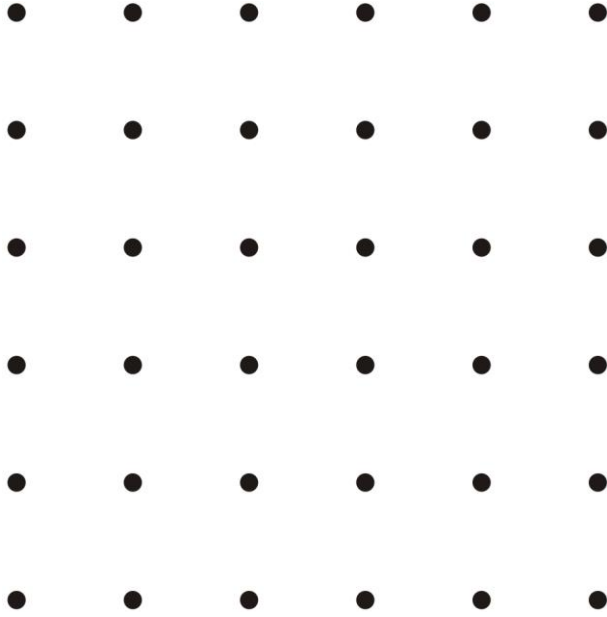
It must have **only one** pair of parallel sides.



1 mark

Q10.

Use the dots to draw a shape that has **4 straight sides** and **no right angles**.

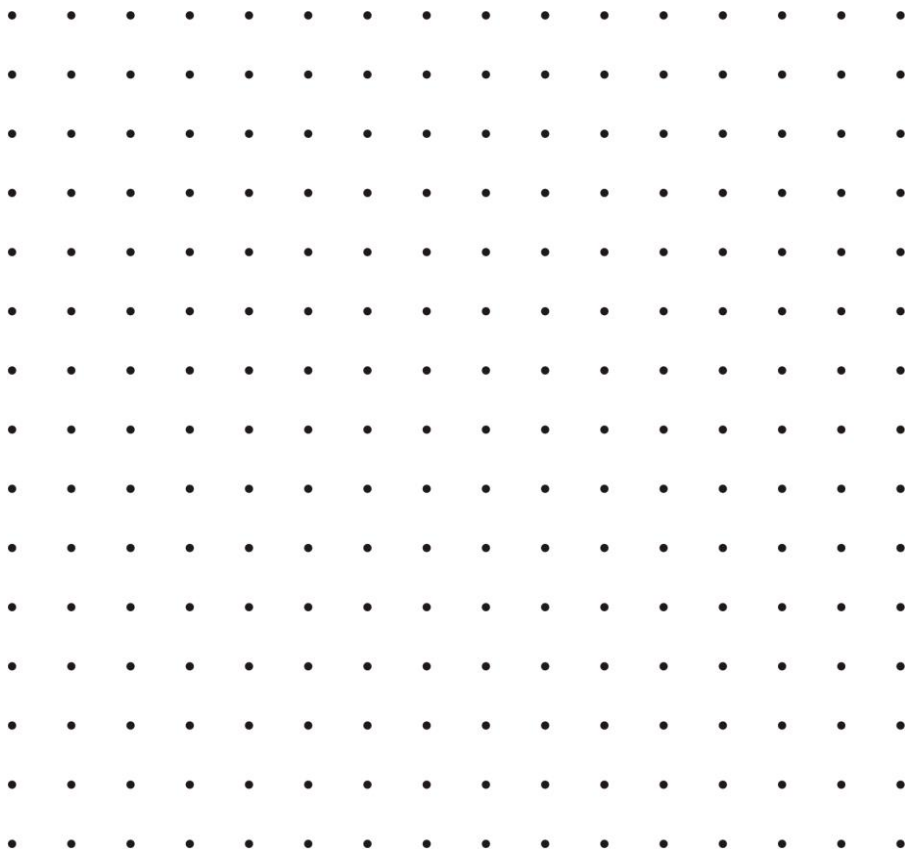


1 mark

Q11.

Draw **two** different rectangles.

Use the dots.



1 mark

Mark schemes

Q1.

- (a) Draws a square

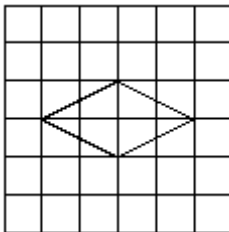
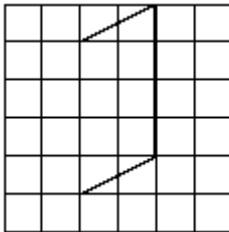
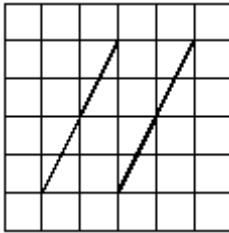
! Lines not ruled, or internal lines drawn
Provided the pupil's intention is clear

1

- (b) Draws a rectangle, or draws a square that is a different size from the one in part (a)

1

- (c) Draws a parallelogram with no right angles, eg



1

- (d) All four entries correct, ie

4
4
2
4

Accept unambiguous indication that the sides are the same length

eg, for the final value of 4

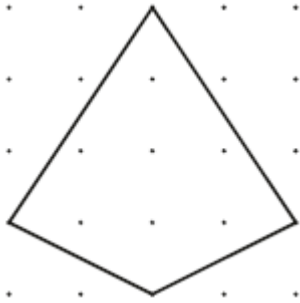
- All
- The
- Yes

2

or

Q2.

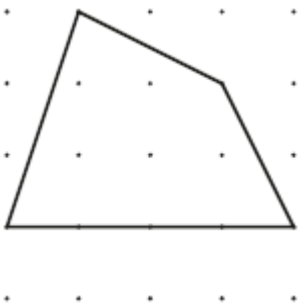
A quadrilateral with three acute angles, e.g.



OR



OR

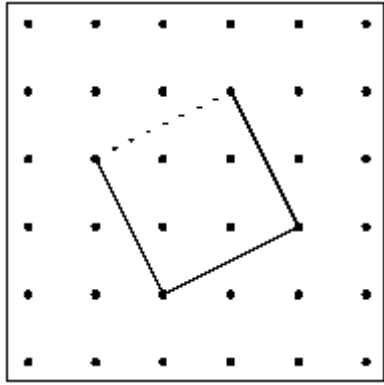


Accept inaccurate drawing provided the intention is clear.

[1]

Q3.

Completion of the diagram as shown.



Lines must be drawn to within 2mm of the correct dots.

Three lines must be drawn for the award of the mark.

Do not penalise drawings done without a ruler, provided the intention is clear.

No mark is awarded for a square which goes outside the given grid.

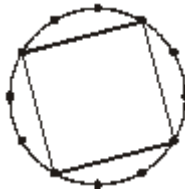
[1]

Q4.

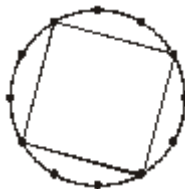
Square drawn as shown:



OR



OR



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

U1

[1]

Q5.

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]

Q6.

D AND E

Letters may be written in either order.

*Accept A **AND** A.*

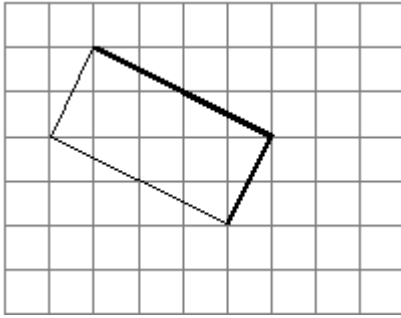
*Accept C **AND** C.*

U1

[1]

Q7.

Completion of rectangle as shown:

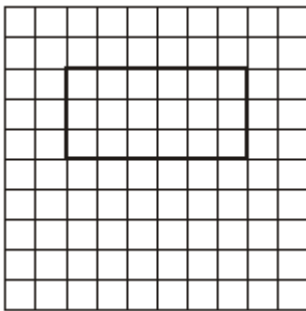


Accept slight inaccuracies in drawing provided the intention is clear.

[1]

Q8.

Any rectangle drawn on the grid whose longer sides are 6 cm, eg



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

Do not accept a 6 cm square.

[1]

Q9.

Award **ONE** mark for a 4-sided shape with one pair of parallel sides.

No mark is awarded unless the shape has four sides.

No mark is awarded for a shape which has more than one pair of parallel sides.

[1]

Q10.

Uses the dots to draw a 4-sided shape with no right angles

[1]

Q11.

any two rectangles drawn that are different in dimensions or orientation and dots used

[1]