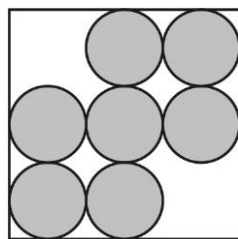
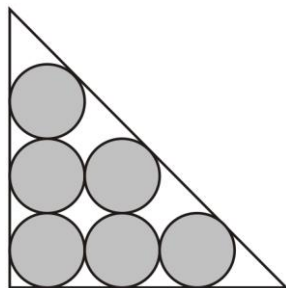
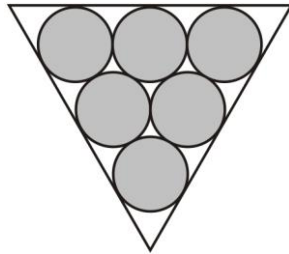


**Q1.**

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

You may use a mirror or tracing paper.

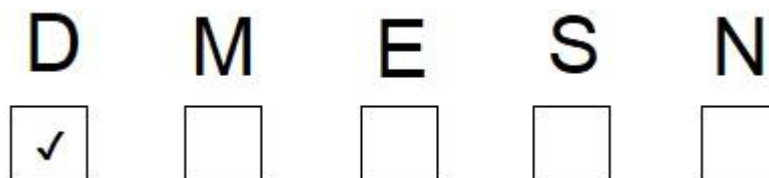


2 marks

**Q2.**

The letter **D** has a line of symmetry.

Tick (✓) **all** the other letters that have a line of symmetry.



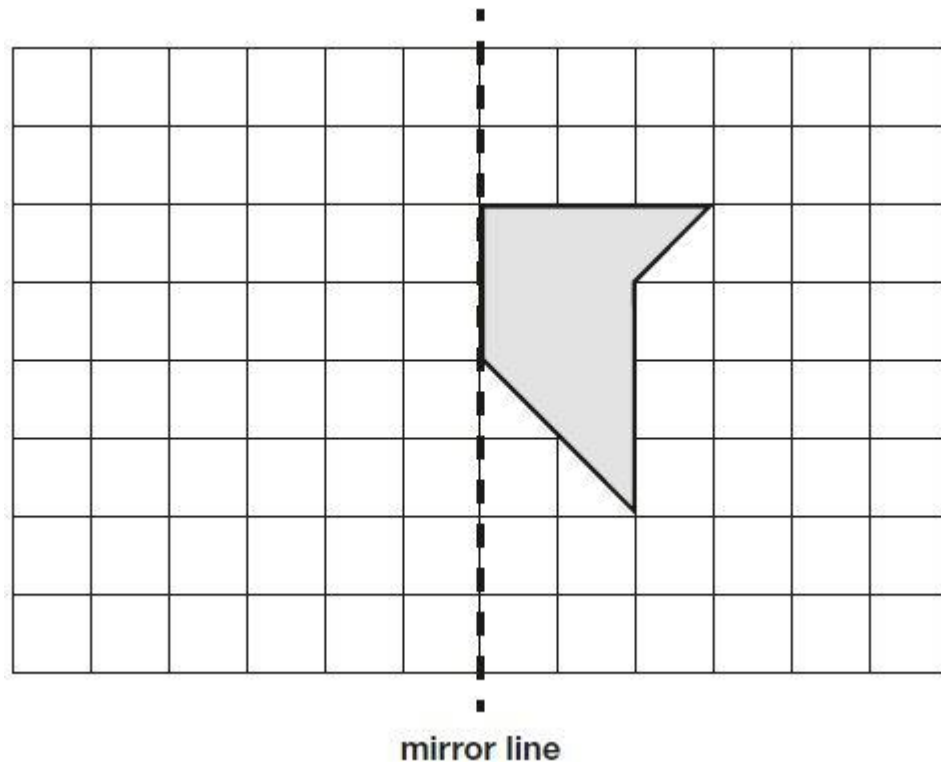
1 mark

**Q3.**

Here is a shape on a grid.

Complete the design so that it is symmetrical about the mirror line.

Use a ruler.

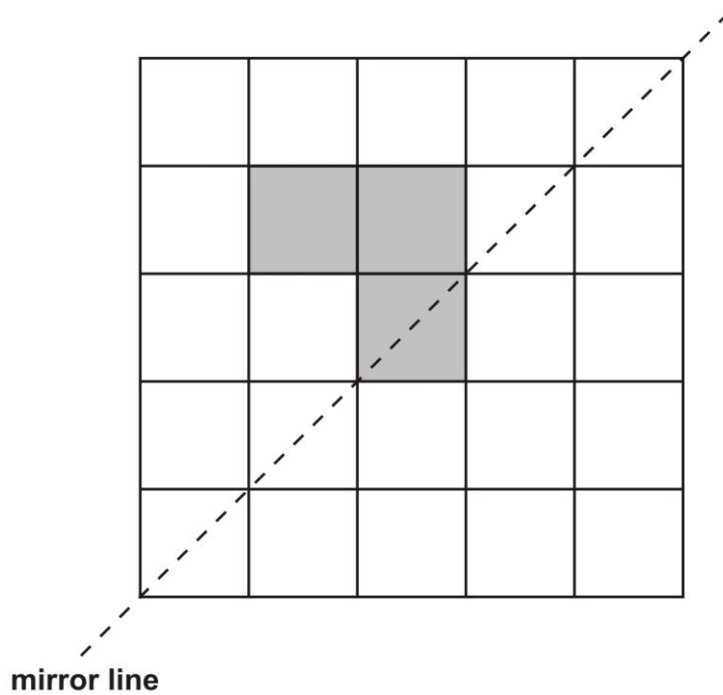


1 mark

**Q4.**

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

You may use a mirror or tracing paper.

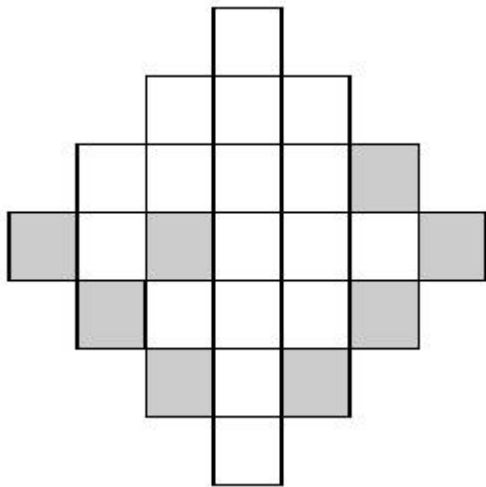


1 mark

**Q5.**

Here is a grid with eight squares shaded in.

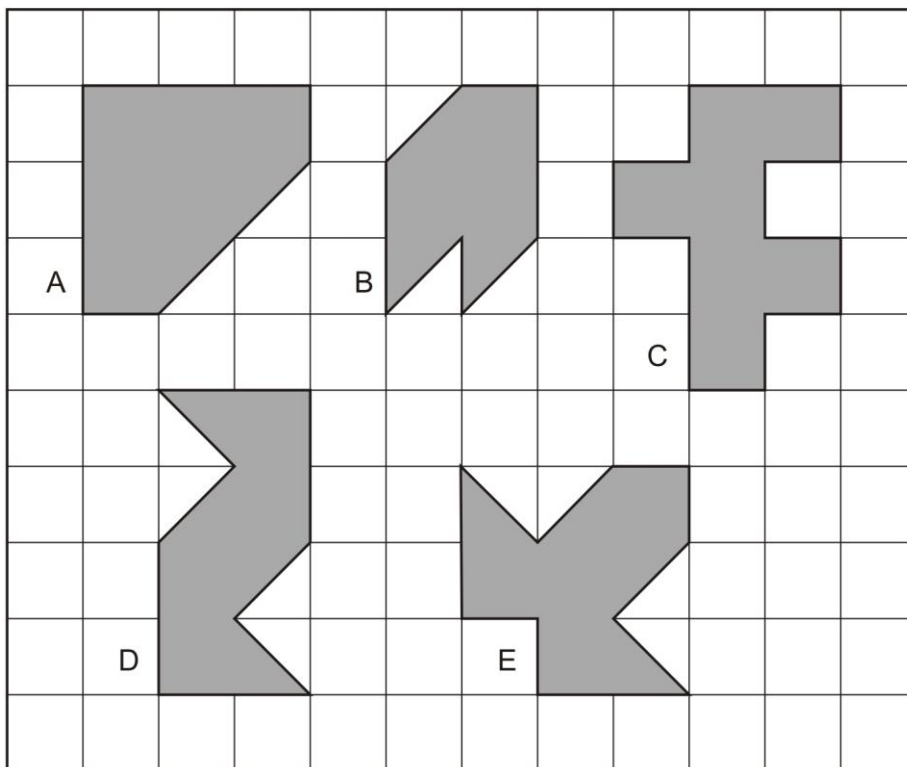
Shade in two more squares to make a symmetrical pattern.



1 mark

**Q6.**

Here are five shapes on a square grid.



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



and



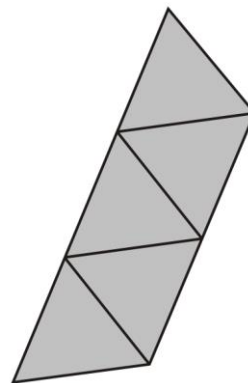
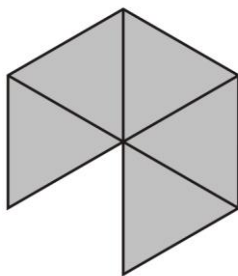
2 marks

**Q7.**

These two shapes are made from equilateral triangles.

Draw one line of symmetry on each shape.

Use a ruler.



1 mark

**Q8.**

A Z F H

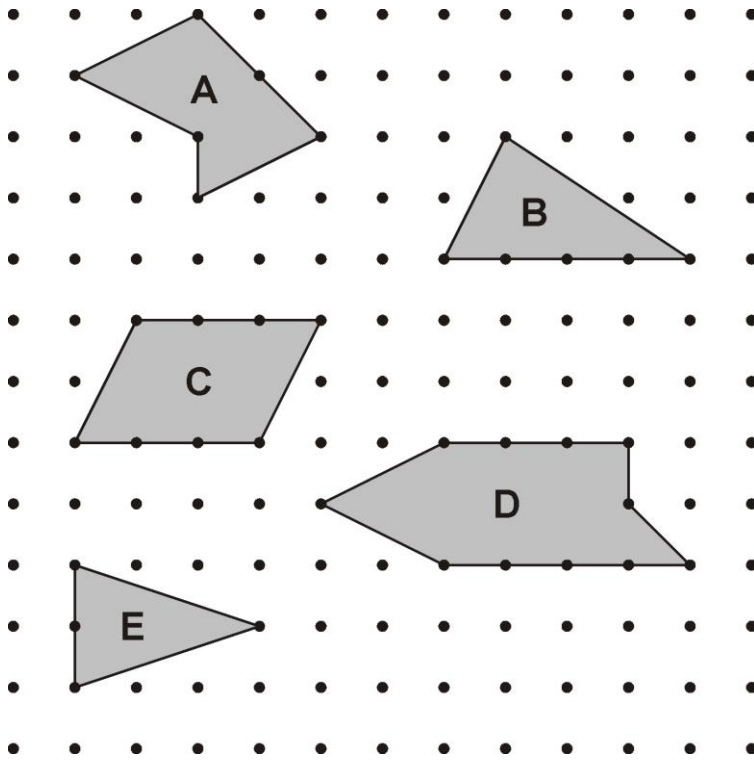
Write each of these letters in the correct region on this diagram

	has reflective symmetry	has reflective symmetry
has rotational symmetry		
has no rotational symmetry		

2 marks

**Q9.**

Here are five shapes on a square grid.



Write in the missing letters.

Shape  has two pairs of parallel sides.

1 mark

Shape  is a pentagon.

1 mark

Shape  has reflective symmetry.

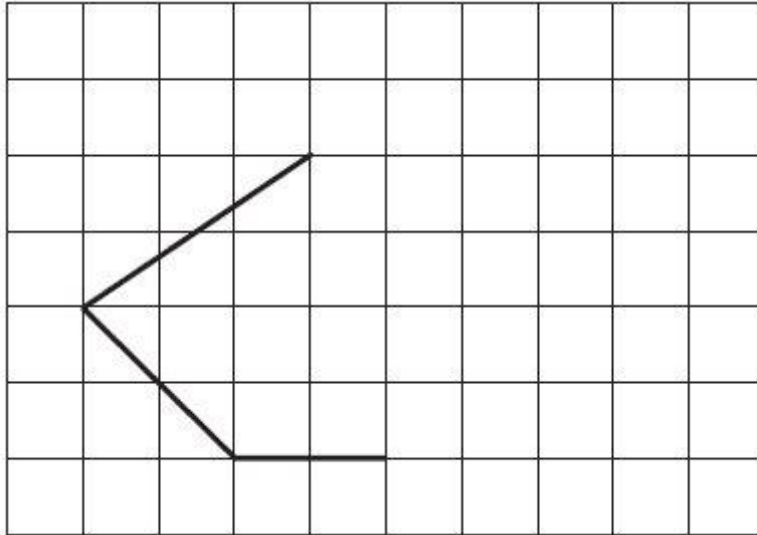
1 mark

**Q10.**

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.



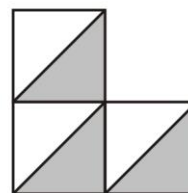
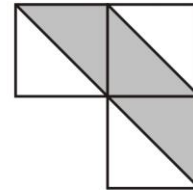
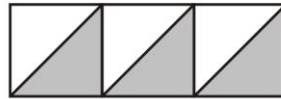
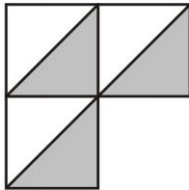
1 mark

**Q11.**

Here are five patterns.

For each pattern put a tick (✓) if it has a line of symmetry.

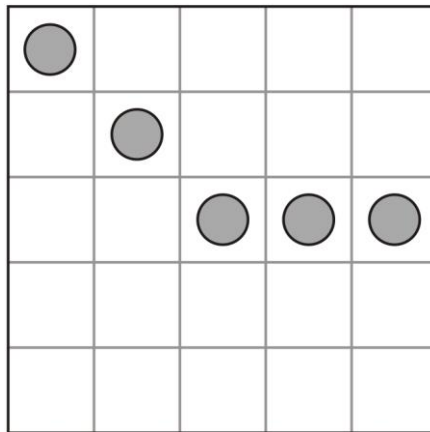
Put a cross (X) if it does not.



2 marks

**Q12.**

Draw **two** more circles on this grid to make a design that has a line of symmetry.



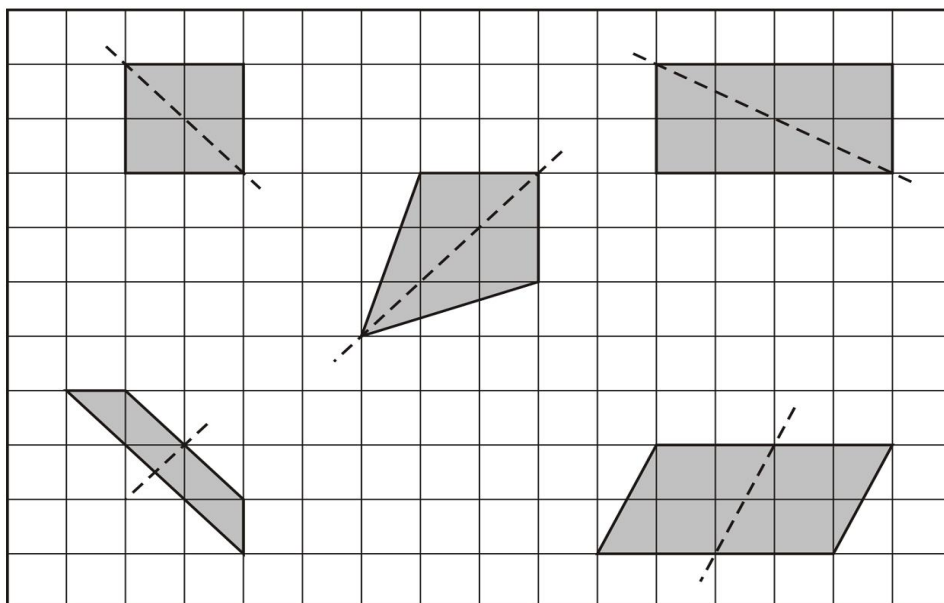
1 mark

**Q13.**

Here are five quadrilaterals on a square grid.

A dotted line has been drawn on each quadrilateral.

For each shape, put a tick (✓) if the dotted line is a line of symmetry.  
Put a cross (X) if it is not a line of symmetry.



2 marks

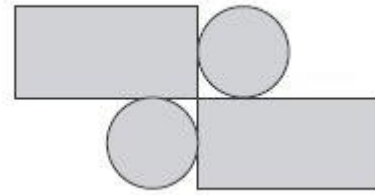
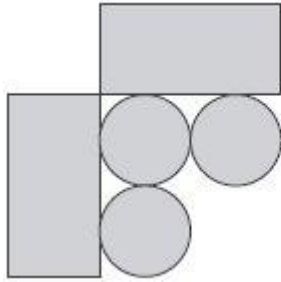
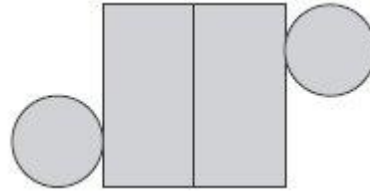
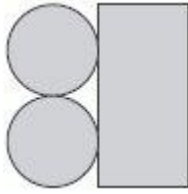
**Q14.**

Amy has some circular tiles and some rectangular tiles.



She makes these patterns with them.

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



2 marks

**Q15.**

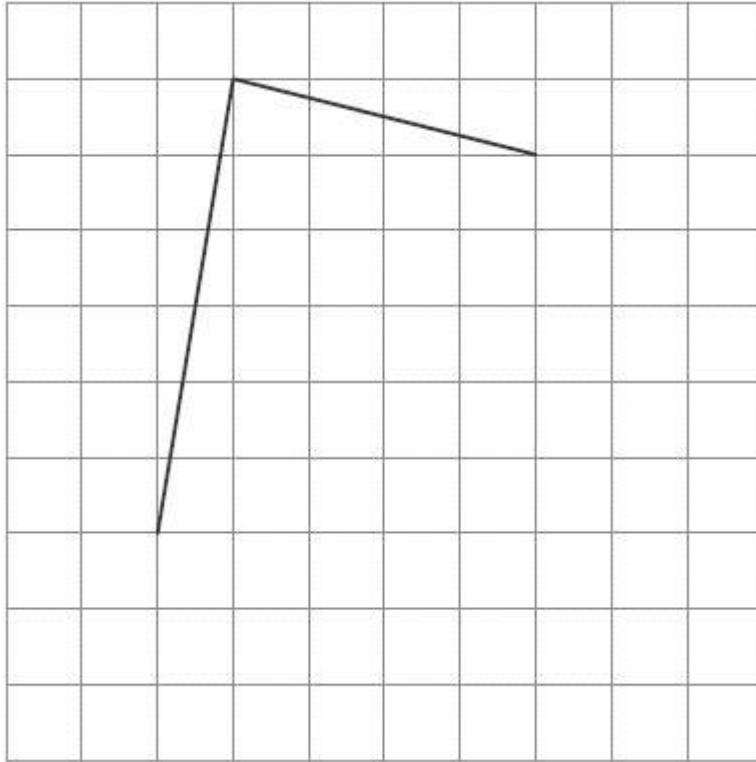
Here is a square grid.

Two sides of a kite are drawn on the grid.

Complete the kite by drawing the two missing sides.

Use a ruler.





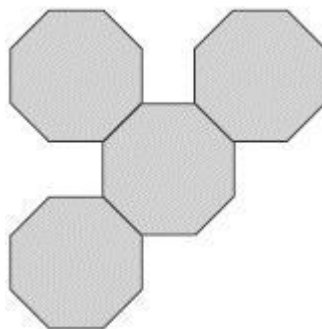
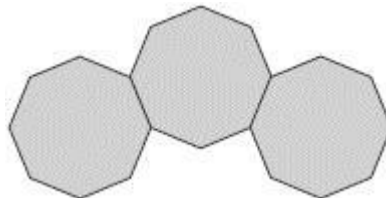
1 mark

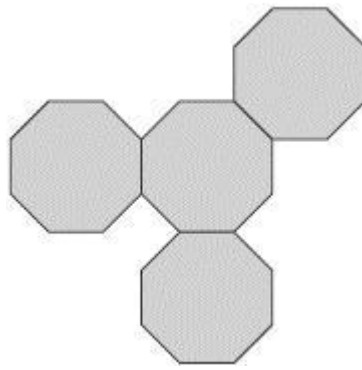
**Q16.**

These diagrams are made from regular octagons.

Draw the line of symmetry on each diagram.

Use a ruler.





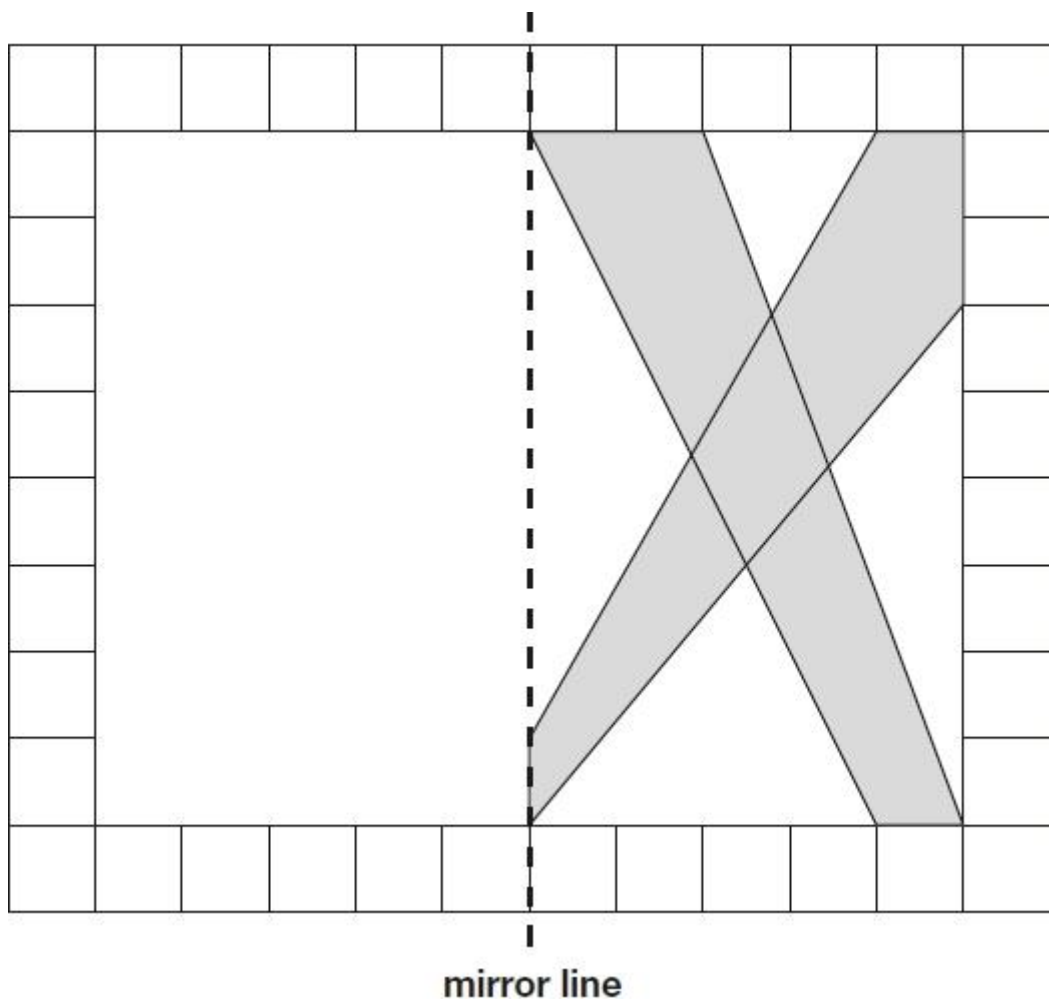
2 marks

**Q17.**

This diagram shows a shaded shape inside a border of squares.

Draw the reflection of the shape in the mirror line.

Use a ruler.



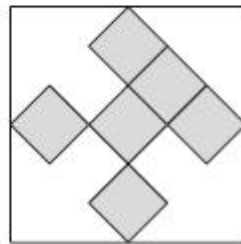
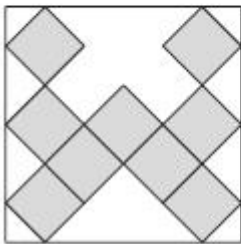
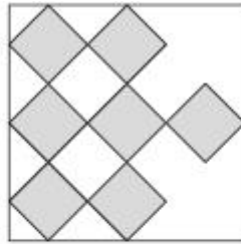
1 mark

**Q18.**

These three square tiles have symmetrical patterns on them.

Draw the line of symmetry on each tile.

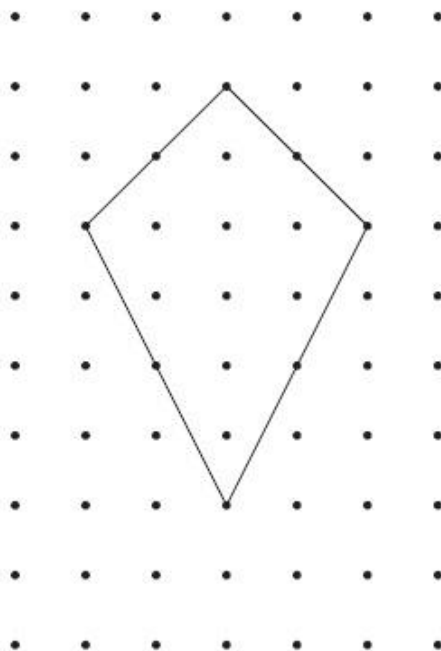
Use a ruler.



2 marks

**Q19.**

Here is a shape on a grid.



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.



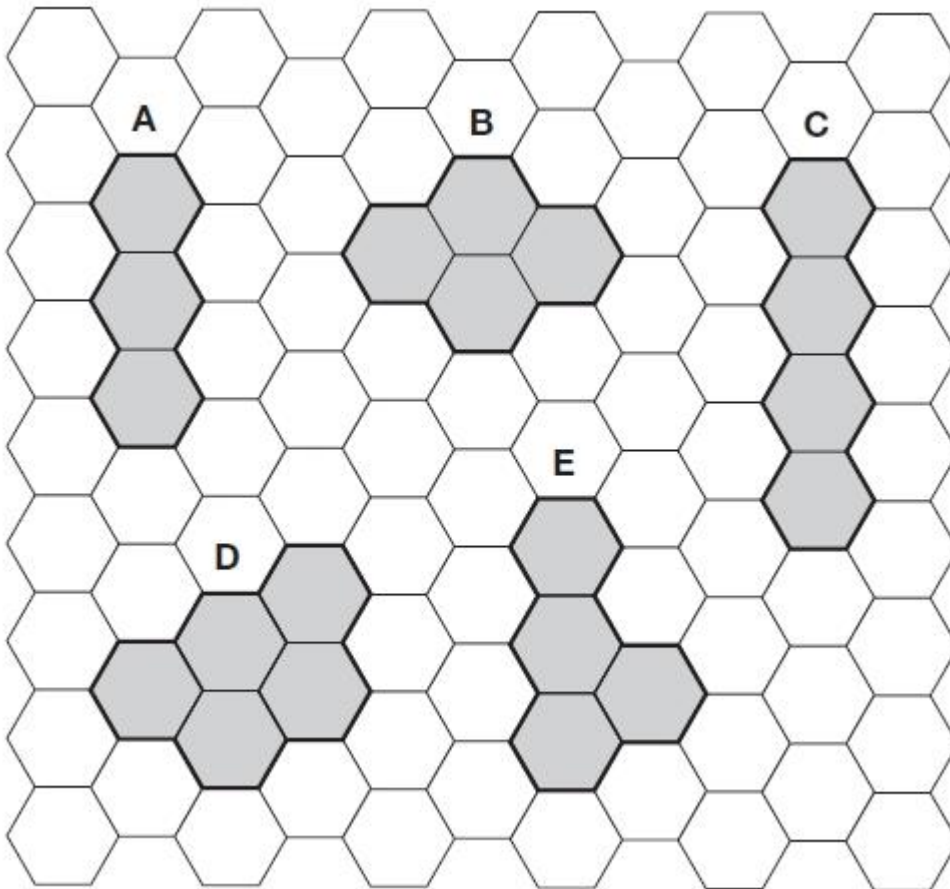
The shape has one right angle.



2 marks

### Q20.

Here are five shapes on a regular grid.



Which shape has the longest **perimeter**?



1 mark

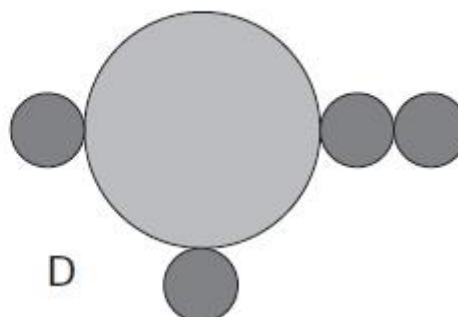
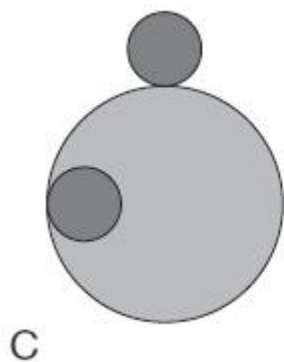
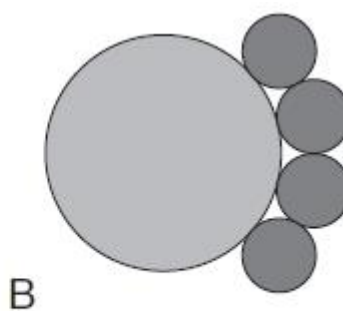
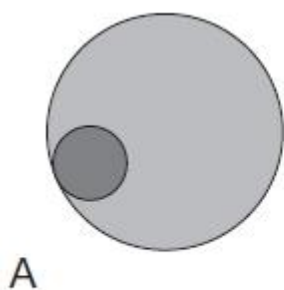
Which shape has only one **line of symmetry**?



1 mark

**Q21.**

Here are four designs made from two sizes of circles.



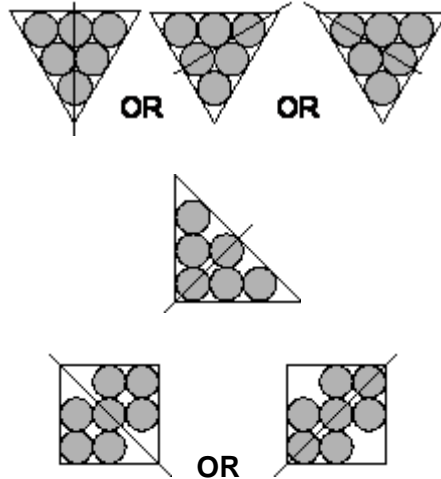
Write the letters of **all** the designs that have line symmetry.

\_\_\_\_\_ 2 marks

Mark schemes

**Q1.**

Award **TWO** marks for one line of symmetry drawn correctly on each diagram as shown:



If the answer is incorrect, award **ONE** mark for lines of symmetry drawn correctly on any two diagrams.

*Accept slight inaccuracies in drawing provided intention is clear.*

*Accept diagrams with more than one line drawn, provided all the lines are correct.*

*The length of the line is unimportant provided the intention is clear.*

Up to 2

[2]

**Q2.**

Two letters ticked as shown:



**Both** letters must be correct for the award of the mark.

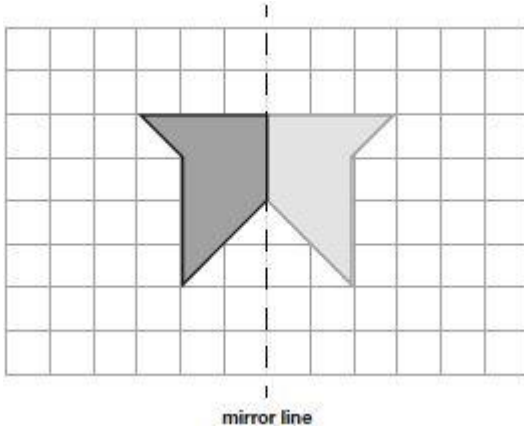
**Do not** award the mark if either S or N are ticked.

*Accept any other clear way of indicating the correct letters, such as 'Yes' or circling.*

[1]

**Q3.**

Diagram completed, as shown:

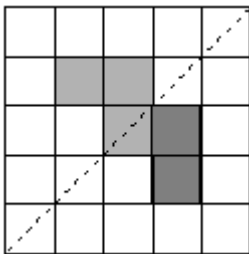


Accept slight inaccuracies in drawing (see guidance).  
 Shape need not be shaded for the award of **ONE** mark.

[1]

**Q4.**

Squares shaded as shown:

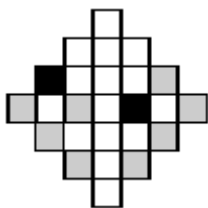


Accept alternative unambiguous indications, eg squares crossed.  
 Accept slight inaccuracies in the shading, provided the intention is clear.

[1]

**Q5.**

Diagram marked as shown:



**Both squares must be correctly marked.**  
 Accept alternative indications, eg squares ticked, crossed or circled.

[1]

**Q6.**

Award **TWO** marks for the correct answers of A **AND** E.

Answers may be given in either order.

Accept unambiguous indications on the diagram.

If the answer is incorrect, award **ONE** mark for:

- only one answer correct

**OR**

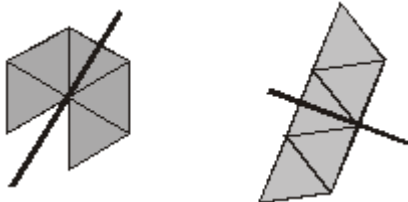
- two answers correct and one incorrect.

Up to 2

[2]

**Q7.**

One line of symmetry correctly positioned on each diagram as shown:



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

*The length of the line is unimportant provided the intention is clear.*

[1]

**Q8.**

Writes all of the four letters in the correct regions of the Carroll diagram.

2



Writes any **two or three** of the four letters in the correct regions of the Carroll diagram.

or 1

*Write 1 or 2 for score for question 44*

[2]

**Q9.**

- (a) C

*Accept unambiguous indications of the correct answers on the diagram.*

1

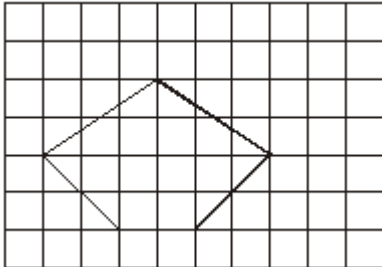
- (b) A

1



**Q10.**

Two more lines drawn as shown:

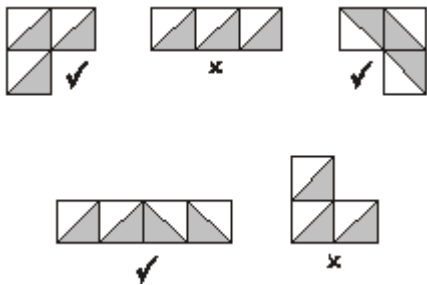


*Accept slight inaccuracies in drawing.  
Do not accept lines drawn outside of the grid.  
Ignore line of symmetry if drawn.*

[1]

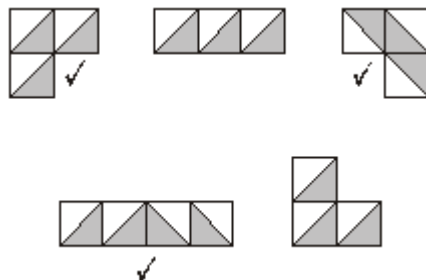
**Q11.**

Award **TWO** marks for diagrams ticked or crossed as shown:



If the answer is incorrect, award **ONE** mark for any four diagrams ticked or crossed correctly.

*Accept: alternative unambiguous indications such as Y or N.  
For **TWO** marks accept:*

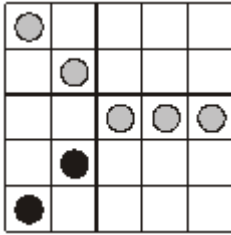


Up to 2

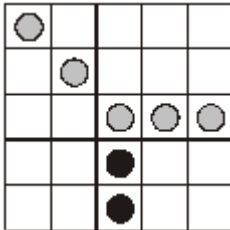
[2]

**Q12.**

Diagram completed correctly as shown:



OR

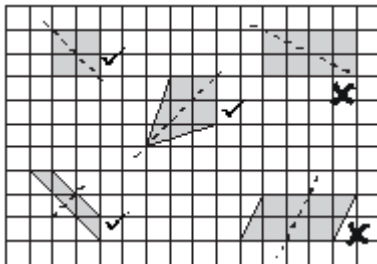


Accept alternative unambiguous indications, eg squares shaded, ticked or crossed.

[1]

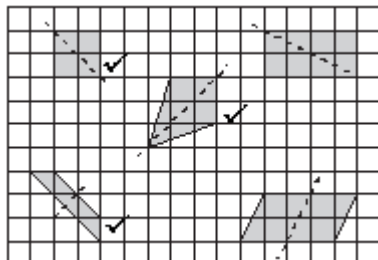
**Q13.**

Award **TWO** marks for shapes ticked and crossed as shown:



If the answer is incorrect, award **ONE** mark for four shapes ticked and crossed correctly.

Accept alternative unambiguous indications such as **Y** or **N**.  
For **TWO** marks accept:

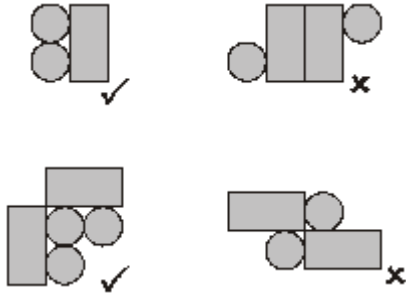


Up to 2

[2]

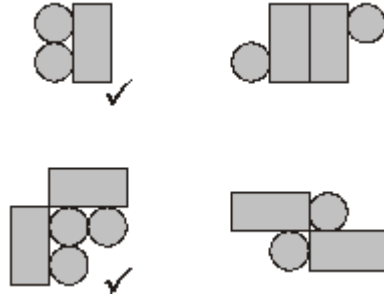
**Q14.**

Award **TWO** marks for diagrams ticked or crossed as shown:



Accept alternative unambiguous indications, eg **Y** or **N**.

For **TWO** marks, accept:



For **TWO** marks accept lines of symmetry drawn on the correct two shapes and the other two shapes left blank.

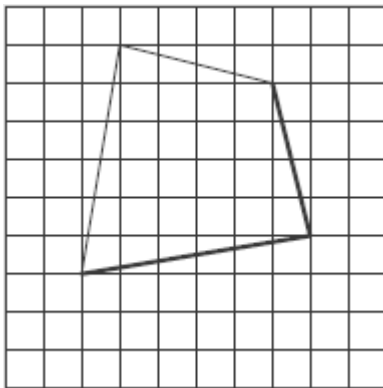
If the answer is incorrect, award **ONE** mark for three diagrams ticked or crossed correctly.

Up to 2

[2]

**Q15.**

Diagram completed correctly as shown:

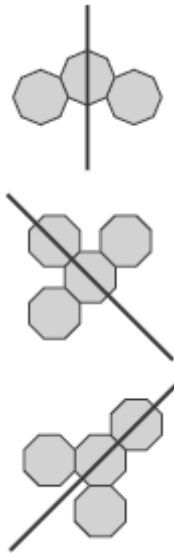


Accept slight inaccuracies in drawing.

[1]

**Q16.**

Award **TWO** marks for one line of symmetry positioned correctly on each diagram as shown:



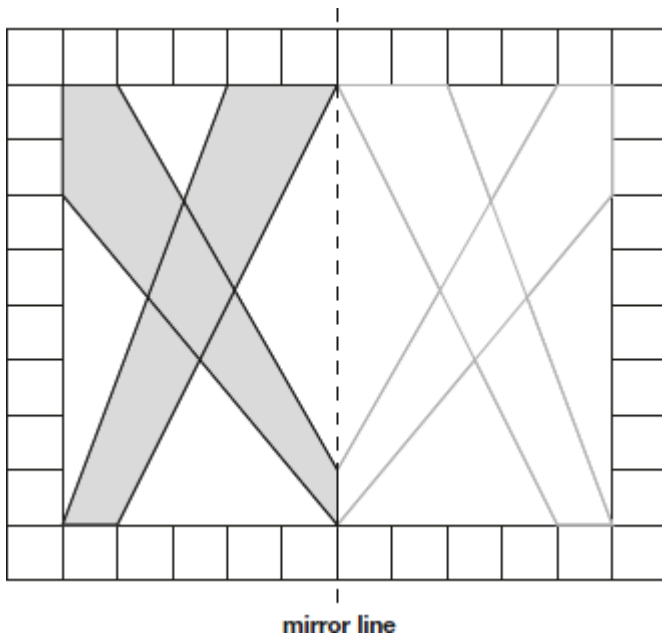
If the answer is incorrect, award **ONE** mark for two diagrams completed correctly.  
*For the first diagram, accept slight inaccuracies in drawing.*  
*For the second and third diagrams, accept inaccurate drawing provided the intention is clear.*

Up to 2

[2]

**Q17.**

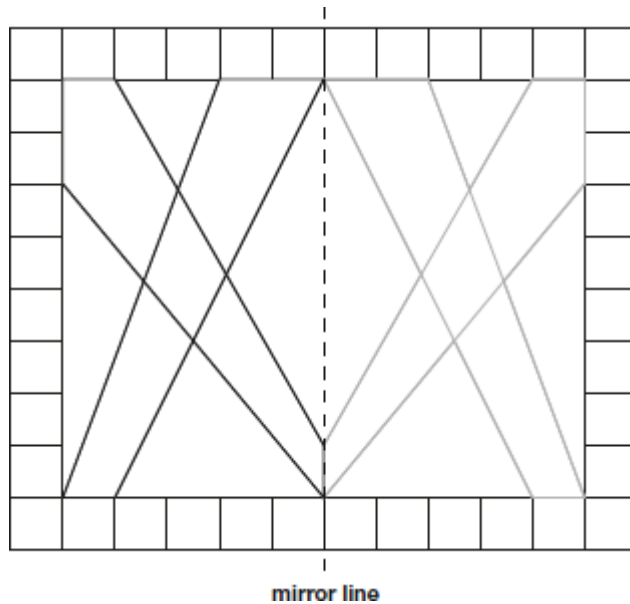
Diagram completed correctly as shown:



*Accept inaccurate drawing, provided the intention is clear.*

*Diagram need not be shaded.*

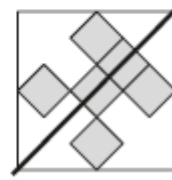
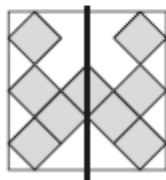
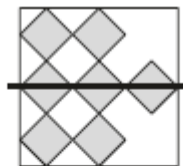
*Diagram need not include edges drawn along the gridlines, e.g.*



[1]

**Q18.**

Award **TWO** marks for three lines of symmetry drawn correctly as shown:



If the answer is incorrect, award **ONE** mark for two lines of symmetry correctly drawn.

*Accept inaccurate drawing provided the intention is clear.*

Up to 2

[2]

**Q19.**

Award **TWO** marks for all four boxes ticked or crossed correctly as shown:

- 
- 
- 
-

If the answer is incorrect, award **ONE** mark for three boxes ticked or crossed correctly.

*Accept alternative unambiguous indications eg **Y** or **N**.*

*For **TWO** marks accept:*

✓
✓

Up to 2m

[2]

**Q20.**

(a) C

*Accept 18*

1

(b) D

1

[2]

**Q21.**

Award **TWO** marks for the correct answer of A **AND** B

If the answer is incorrect, award **ONE** mark for:

- A only

**OR**

- B only

**OR**

- A **AND** B **AND** not more than one incorrect letter.

*Accept alternative unambiguous indication.*

Up to 2

[2]