

Name: _____

Exam Style Questions

Line Symmetry
Rotational Symmetry



Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

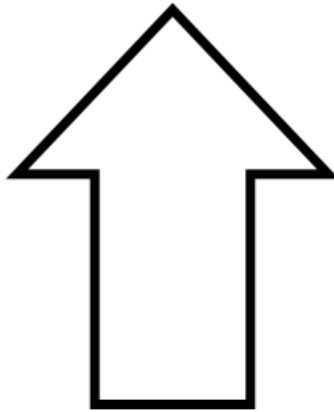
www.corbettmaths.com/contents

Video 316

Video 317



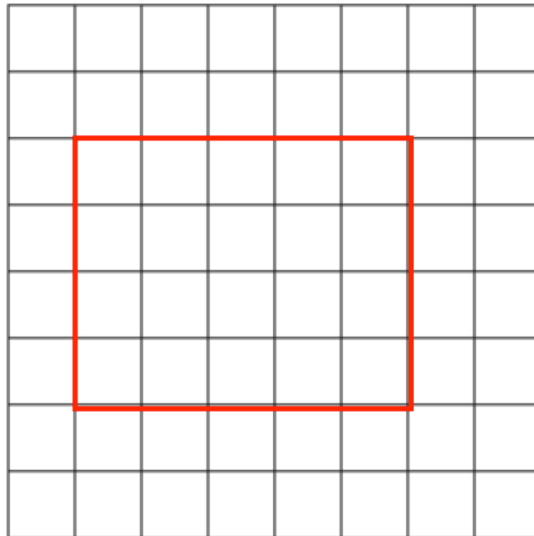
1. An arrow is drawn below.



Draw all the lines of symmetry on this shape.

(1)

2. A rectangle is drawn on a centimetre grid.



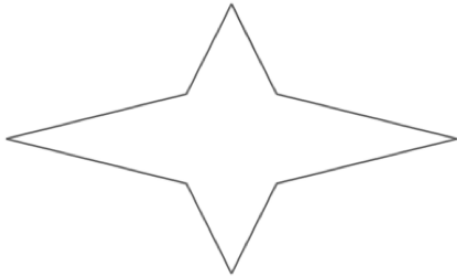
(a) Draw the lines of symmetry on the rectangle.

(1)

(b) Find the area of the rectangle.

.....cm²
(1)

3. For each shape write down the number of lines of symmetry and the order of rotational symmetry.



Lines of symmetry _____

Rotational symmetry order _____



Lines of symmetry _____

Rotational symmetry order _____



Lines of symmetry _____

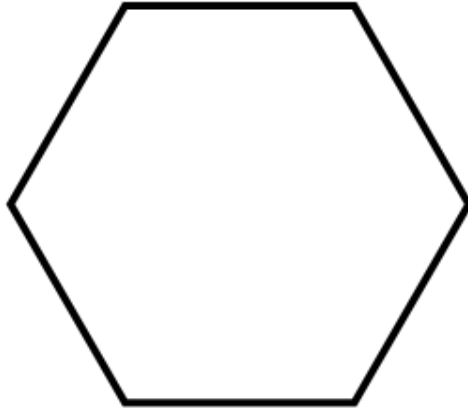
Rotational symmetry order _____



Lines of symmetry _____

Rotational symmetry order _____

4. The diagram below shows a regular hexagon.



(a) Write down the order of rotational symmetry of the hexagon.

.....
(1)

(b) On the diagram draw in all the lines of symmetry.

(2)

5. For each road sign write down the number of lines of symmetry and the order of rotational symmetry.



Lines of symmetry _____

Rotational symmetry order _____



Lines of symmetry _____

Rotational symmetry order _____



Lines of symmetry _____

Rotational symmetry order _____



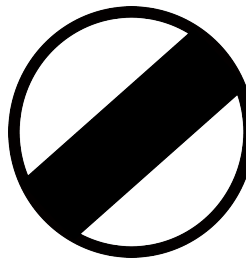
Lines of symmetry _____

Rotational symmetry order _____



Lines of symmetry _____

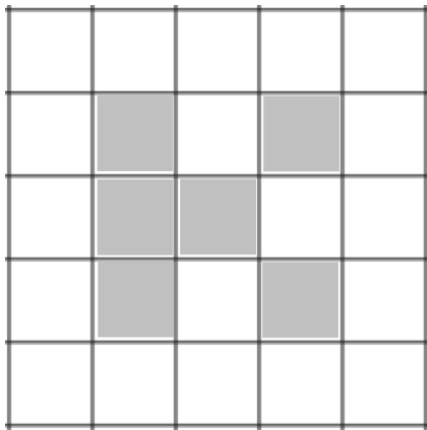
Rotational symmetry order _____



Lines of symmetry _____

Rotational symmetry order _____

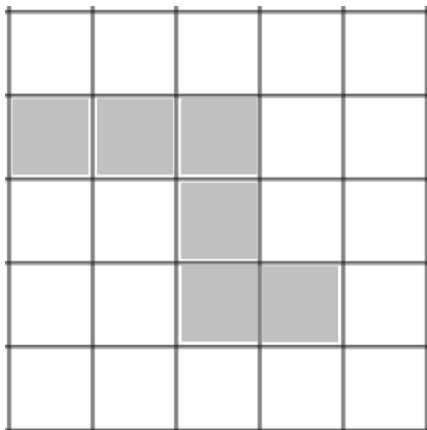
6. (a)



Shade one more square to make a pattern with 1 line of symmetry.

(1)

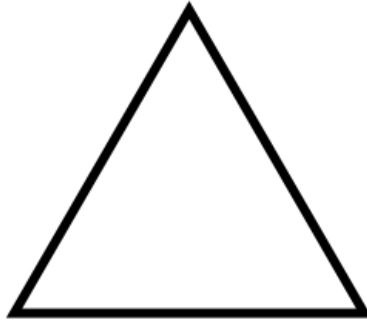
(b)



Shade one more square to make a pattern with rotational symmetry order 2.

(1)

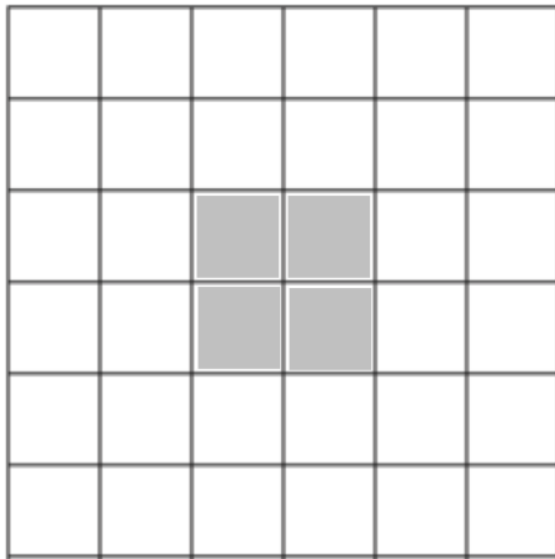
7. (a) An equilateral triangle is drawn below.



Draw all the lines of symmetry.

(2)

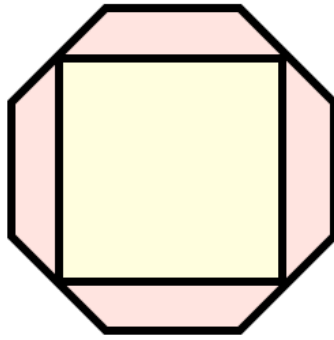
(b) Four small squares are shaded in the diagram below.



Shade in four more small squares to make a pattern with rotational symmetry order 4.

(2)

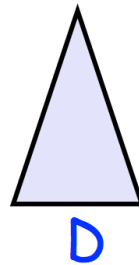
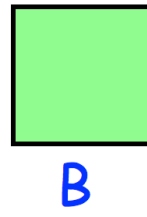
8. A square is drawn inside of a regular octagon.



Draw all the lines of symmetry on this shape.

(1)

9. Here are some shapes.

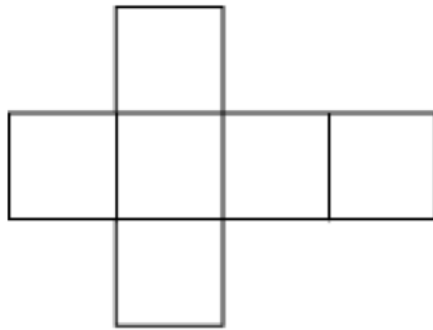


In the table write down the rotational symmetry for each shape.

Shape	A	B	C	D
Order of rotational symmetry				

(2)

10. The diagram shows the net of a solid shape.



(a) What is the name of the solid?

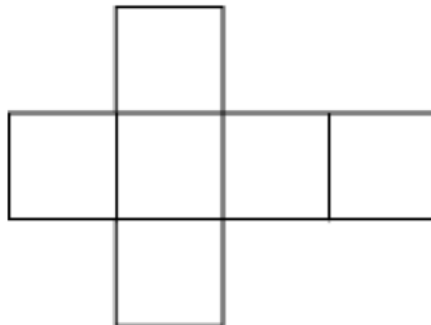
.....
(1)

(b) The net has one line of symmetry.
Draw the line of symmetry on the diagram.

(1)

(c) Add some more squares to the diagram below so it has rotational symmetry of order four.

(1)

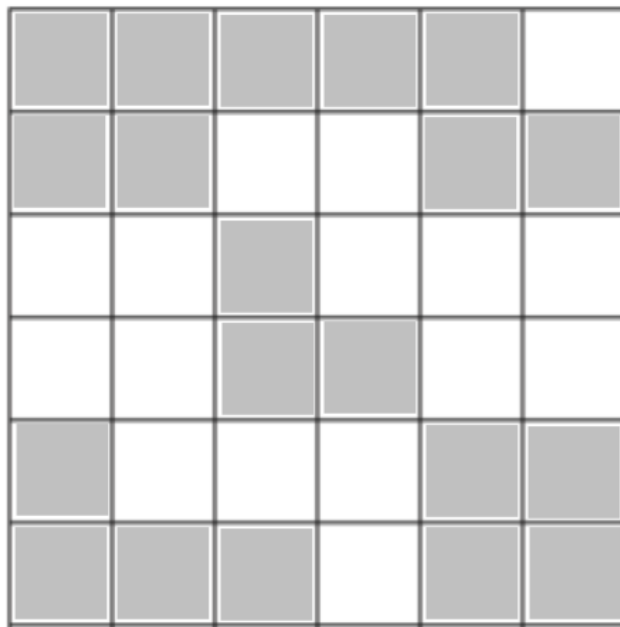


11. Complete the table below to show the symmetry properties of quadrilaterals.

	Exactly 1 line of symmetry	Rotational symmetry of order 2
Rectangle	X	✓
Square		
Kite		
Rhombus		

(3)

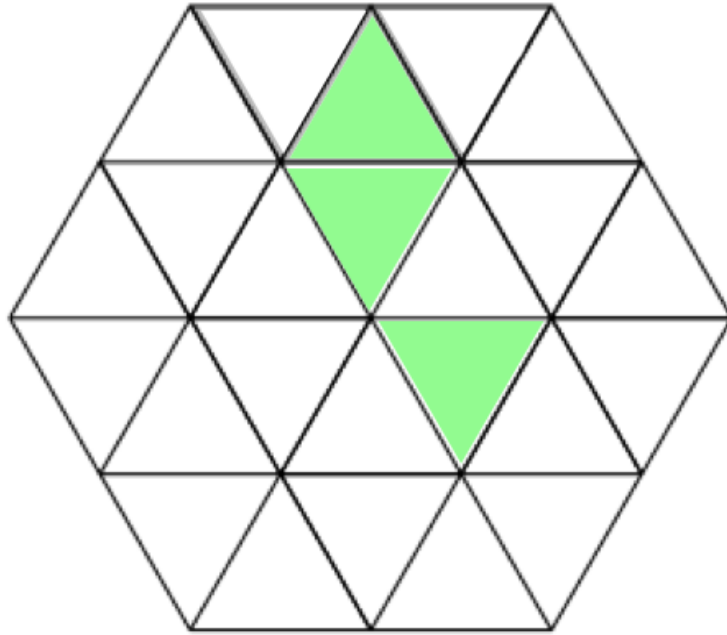
12.



Shade in the fewest possible squares to make a pattern with 2 lines of symmetry.

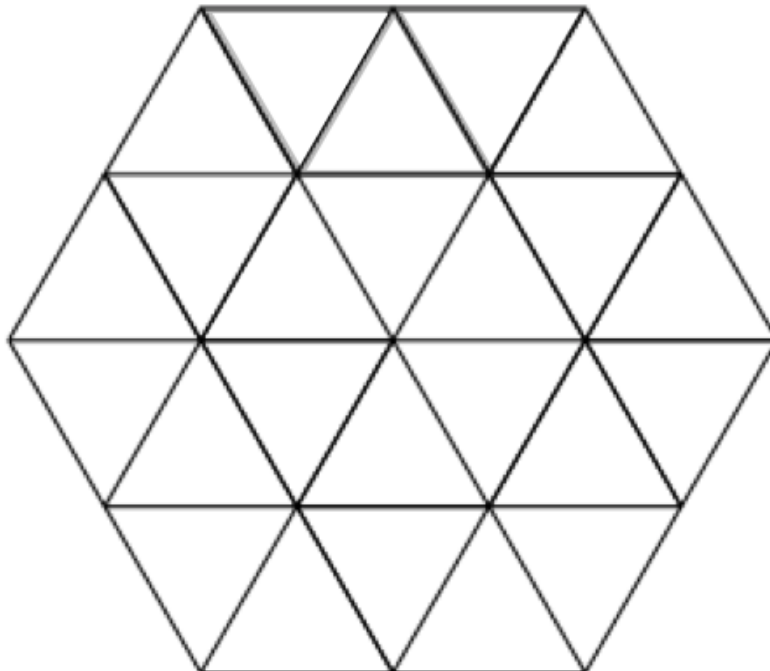
(2)

13. (a) Shade three more triangles to make a pattern with rotational symmetry order 3.



(2)

- (b) Shade six triangles to make a pattern with rotational symmetry order 6.



(2)