



# EXAM PAPERS PRACTICE

## Symmetry

### Question Paper

## Question 1



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

[1]

(b) Draw the lines of symmetry on the diagram.

[1]

## Question 2



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### TRIGONOMETRY

From the above word, write down the letters which have

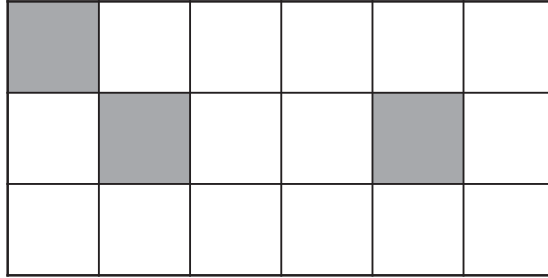
(a) exactly two lines of symmetry, [1]

(b) rotational symmetry of order 2. [1]

### Question 3

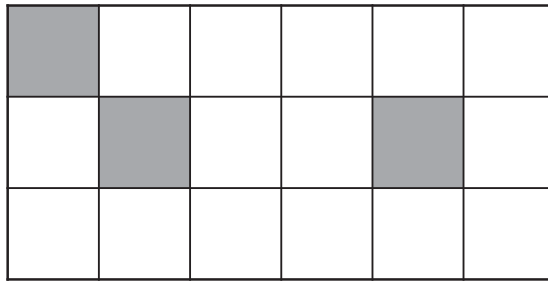
(a) Shade **one** square in each diagram so that there is

(i) one line of symmetry,



[1]

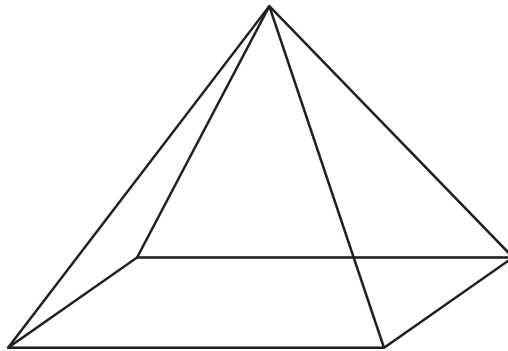
(ii) rotational symmetry of order 2.



[1]

(b) The pyramid below has a rectangular base.  
The vertex of the pyramid is vertically above the centre of the base.

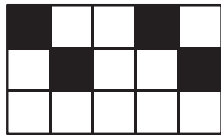
Write down the number of **planes** of symmetry for the pyramid.



[1]

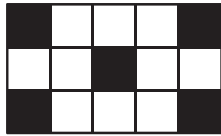
## Question 4

(a) Write down the number of lines of symmetry for the diagram below.



[1]

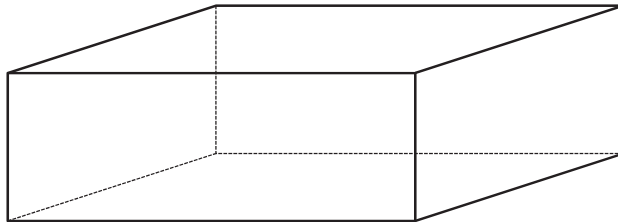
(b) Write down the order of rotational symmetry for the diagram below.



[1]

(c) The diagram shows a cuboid which has no square faces.

Draw one of the **planes** of symmetry of the cuboid on the diagram.



[1]

## Question 5

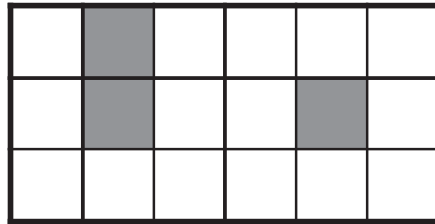


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(a) Shade one square in each diagram so that there is

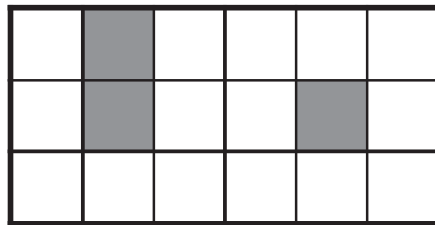
(i) one line of symmetry,

[1]



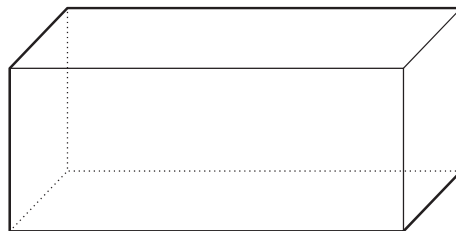
(ii) rotational symmetry of order 2.

[1]



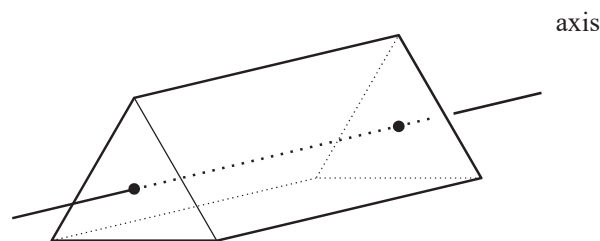
(b) On the diagram below, sketch one of the **planes** of symmetry of the cuboid.

[1]

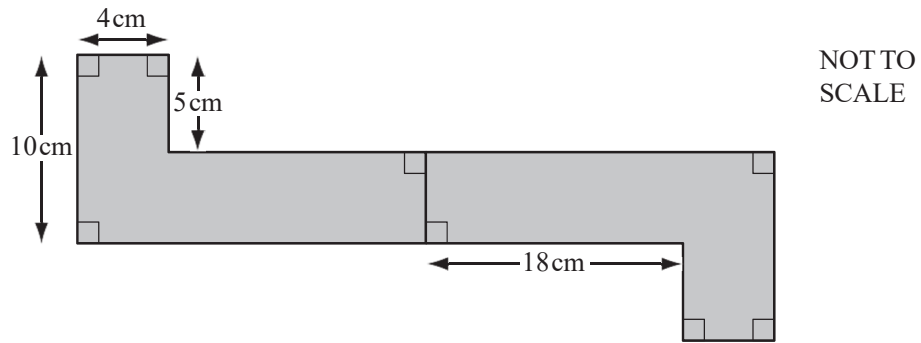


(c) Write down the order of rotational symmetry of the equilateral triangular prism about the axis shown.

[1]



## Question 6



The shaded shape has rotational symmetry of order 2.

Work out the shaded area.

[3]

## Question 7



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(a) Draw a quadrilateral which has rotational symmetry of order 2 and whose diagonals are equal in length.

[2]

(b) Write down the special name of this quadrilateral.

[1]



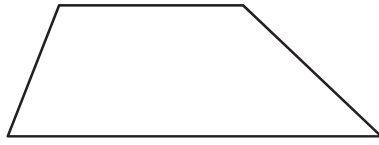
## Question 8



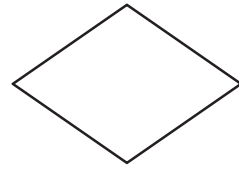
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Parallelogram



Trapezium



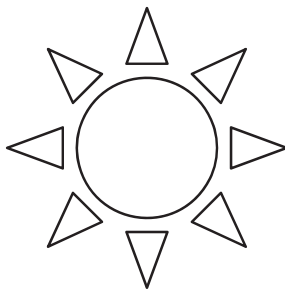
Rhombus

Write down which one of these shapes has

- rotational symmetry of order 2
- and**
- no line symmetry.

[1]

## Question 9



Write down the order of rotational symmetry of this shape.

[1]

## Question 10

(a) Add **one** line to the diagram so that it has two lines of symmetry.

[1]



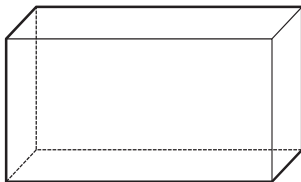
(b) Add **two** lines to the diagram so that it has rotational symmetry of order 2.

[1]



## Question 11

(a) The diagram shows a cuboid.



How many planes of symmetry does this cuboid have?

[1]

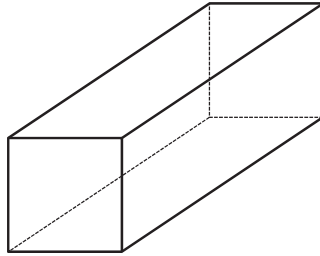
(b) Write down the order of rotational symmetry for the following diagram.



[1]

## Question 12

(a)

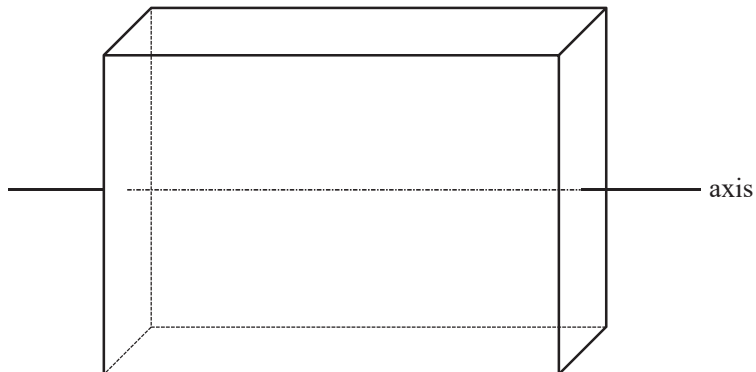


This cuboid has a **square** cross-section.

Write down the number of planes of symmetry.

[1]

(b)



This cuboid has a **rectangular** cross-section.

The axis shown passes through the centre of two opposite faces.

Write down the order of rotational symmetry of the cuboid about this axis.

[1]

## Question 13



For the diagram, write down

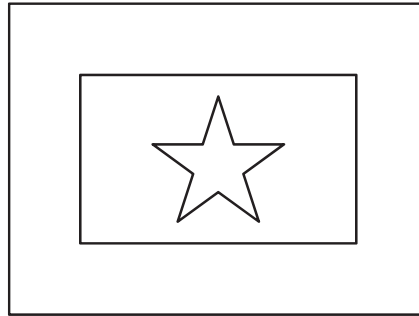
(a) the order of rotational symmetry,

[1]

(b) the number of lines of symmetry.

[1]

## Question 14



For the **diagram**, write down

(a) the order of rotational symmetry,

[1]

(b) the number of lines of symmetry.

[1]

## Question 15



For the diagram above write down

(a) the order of rotational symmetry,

[1]

(b) the number of lines of symmetry.

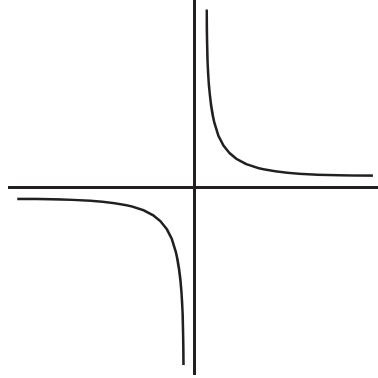
[1]



## Question 16



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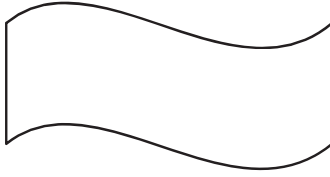
(a) Write down the order of rotational symmetry of the diagram.

[1]

(b) Draw all the lines of symmetry on the diagram.

[1]

## Question 17



For this diagram, write down

(a) the order of rotational symmetry, [1]

(b) the number of lines of symmetry. [1]

## Question 18

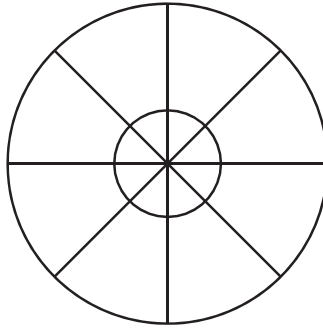


For the diagram, write down

(a) the order of rotational symmetry, [1]

(b) the number of lines of symmetry. [1]

## Question 19

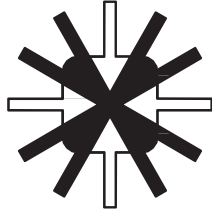


For the diagram above write down

(a) the order of rotational symmetry, [1]

(b) the number of lines of symmetry. [1]

## Question 20



For the shape above, write down

(a) the number of lines of symmetry,

[1]

(b) the order of rotational symmetry.

[1]