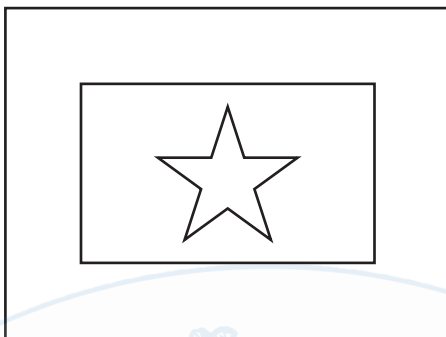




Symmetry

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1



For the **diagram**, write down

(a) the order of rotational symmetry,

Answer(a) [1]

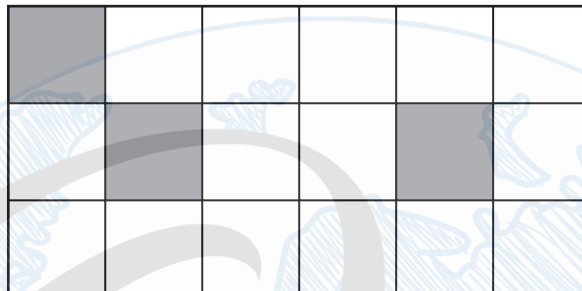
(b) the number of lines of symmetry.

Answer(b) [1]

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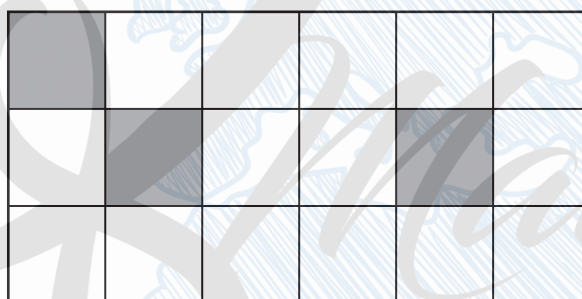
8 (a) Shade **one** square in each diagram so that there is

(i) one line of symmetry,



[1]

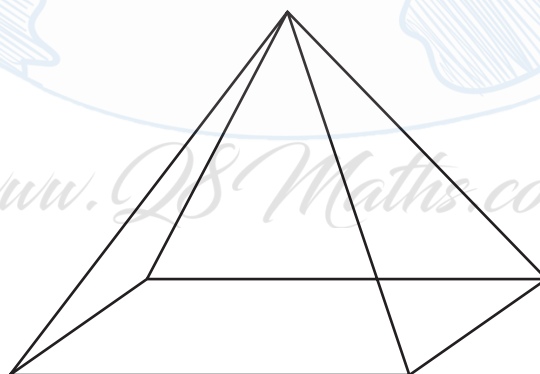
(ii) rotational symmetry of order 2.



[1]

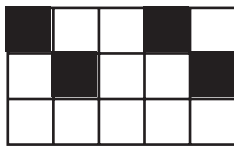
(b) The pyramid below has a rectangular base.
The vertex of the pyramid is vertically above the centre of the base.

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



Answer(b) [1]

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



Answer(a) [1]

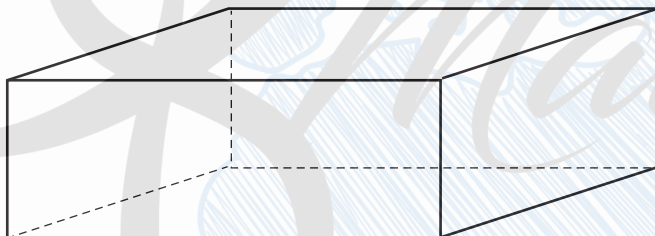
- (b) Write down the order of rotational symmetry for the diagram below.



Answer(b) [1]

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

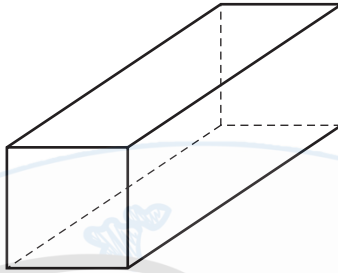
Draw one of the **planes** of symmetry of the cuboid on the diagram.



[1]

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5 (a)

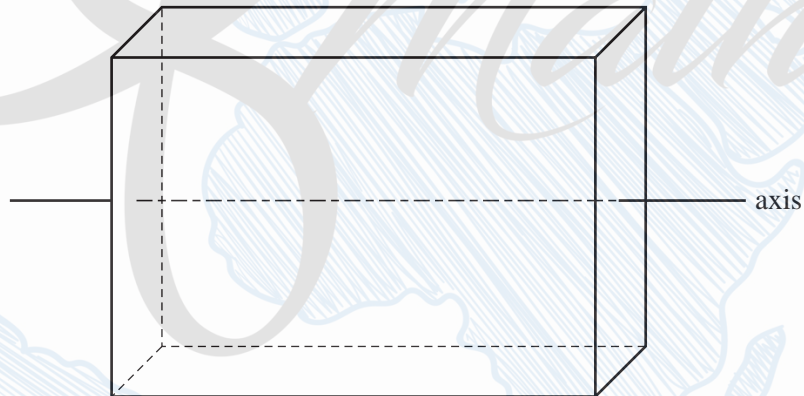


This cuboid has a **square** cross-section.

Write down the number of planes of symmetry.

Answer(a) [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.

Answer(b) [1]

1



For the diagram, write down

(a) the order of rotational symmetry,

Answer(a) [1]

(b) the number of lines of symmetry.

Answer(b) [1]

2

TRIGONOMETRY

From the above word, write down the letters which have

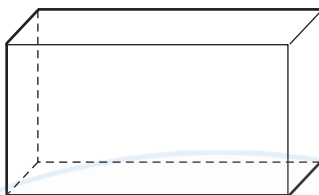
(a) exactly two lines of symmetry,

Answer(a) [1]

(b) rotational symmetry of order 2.

Answer(b) [1]

- 3 (a) The diagram shows a cuboid.



How many planes of symmetry does this cuboid have?

Answer(a) [1]

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



Answer(b) [1]

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- 5 (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]

3

ZEBRA

Write down the letters in the word above that have

- (a) exactly one line of symmetry,

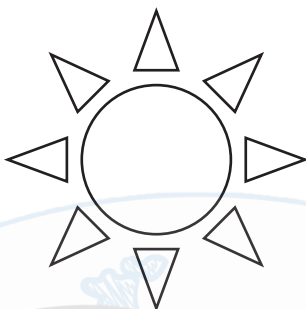
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Answer(a) [1]

- (b) rotational symmetry of order 2.

Answer(b) [1]

3



Write down the order of rotational symmetry of this shape.

Answer [1]

2



Parallelogram



Trapezium



Rhombus

Write down which one of these shapes has

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

Answer [1]

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- 4 A quadrilateral has rotational symmetry of order 2 and no lines of symmetry.

Write down the mathematical name of this quadrilateral.

..... [1]



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