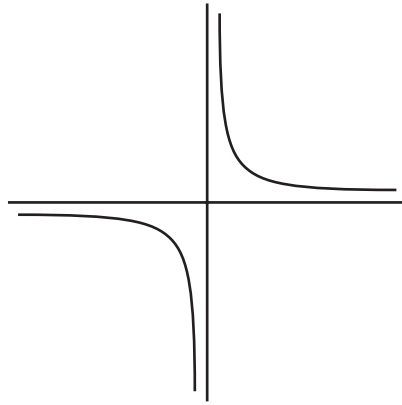# Module 2 Symmetry

1)

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

Answer(a) [1]

(b) Draw all the lines of symmetry on the diagram. [1]

2)

For the diagram above write down

(a) the order of rotational symmetry,

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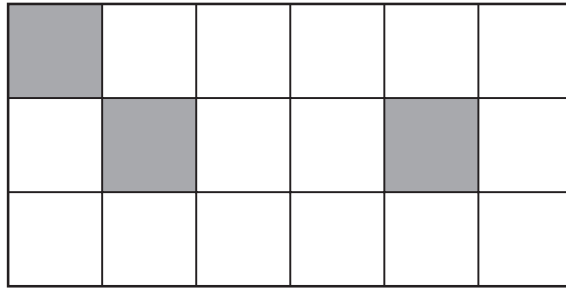
(b) the number of lines of symmetry.
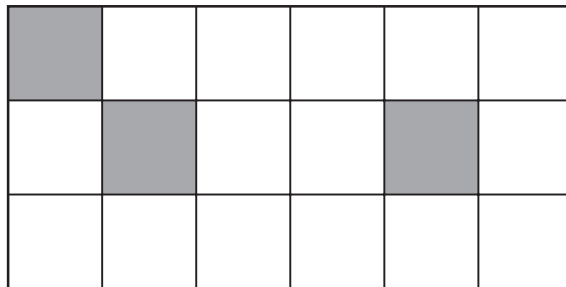
Answer(b) [1]

Module 2 Symmetry

3)

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

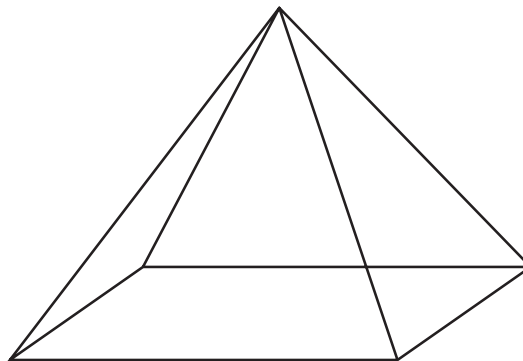   **(i)** one line of symmetry,

[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.
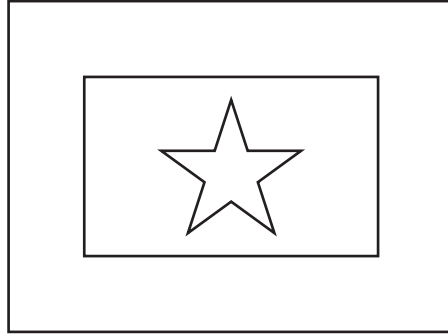

Answer(b)   [1]

4)

For the **diagram**, write down

(a) the order of rotational symmetry,

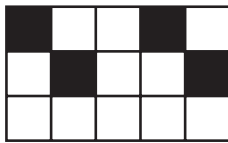*Answer(a)* .... [1]

(b) the number of lines of symmetry.

Answer(b) .... [1]

5)   **(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.
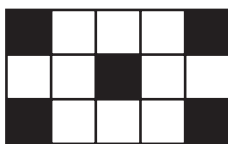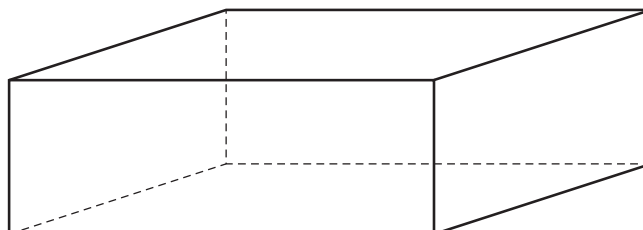

Answer(b) .... [1]

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

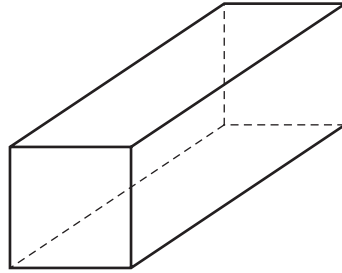Draw one of the **planes** of symmetry of the cuboid on the diagram.
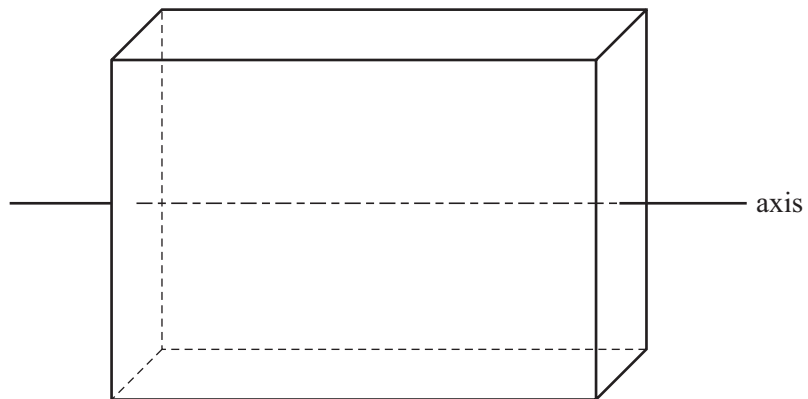

[1]

6)

(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.

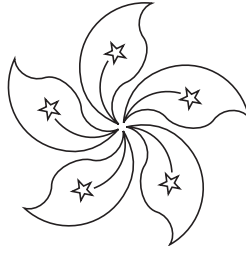The axis shown passes through the centre of two opposite faces.

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

Answer(b) [1]

7)

For the diagram, write down

(a) the order of rotational symmetry,

Answer(a) .... [1]

(b) the number of lines of symmetry.

Answer(b) .... [1]

TRIGONOMETRY

8) From the above word, write down the letters which have
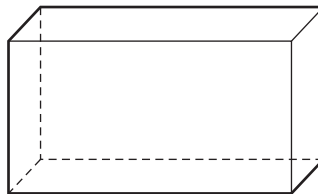
(a) exactly two lines of symmetry,

Answer(a) .... [1]

(b) rotational symmetry of order 2.

Answer(b) .... [1]

9) **(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]

Module 2 Symmetry