Bishops Online Tutoring

Education Consultancy

Edexcel GCSE Mathematics

NETS, PLANS & ELEVATIONS

Materials Required:

- Pen
- HB Pencil
- Ruler (in centimetres and millimetres)
- Protractor
- Compass

Instructions:

- Use a black ink pen to answer all questions
- Fill your name in the section below
- Answer the questions in the spaces provided
- Show your working out for all answers

Information:

- The marks allocated for each question are displayed within brackets – utilise this information to gauge the appropriate amount of time to dedicate to each question
- Questions marked with an asterisk (*) will assess your written communication; be careful of spelling, punctuation and grammar with these questions

Advice:

- Carefully read the question before attempting to answer it
- Be vary of time and try to answer every question
- If you have enough time in the end, go back and check your answers. A good way to check your answers is to retry the question with the hope of getting the same answer as before without looking at your working out from before

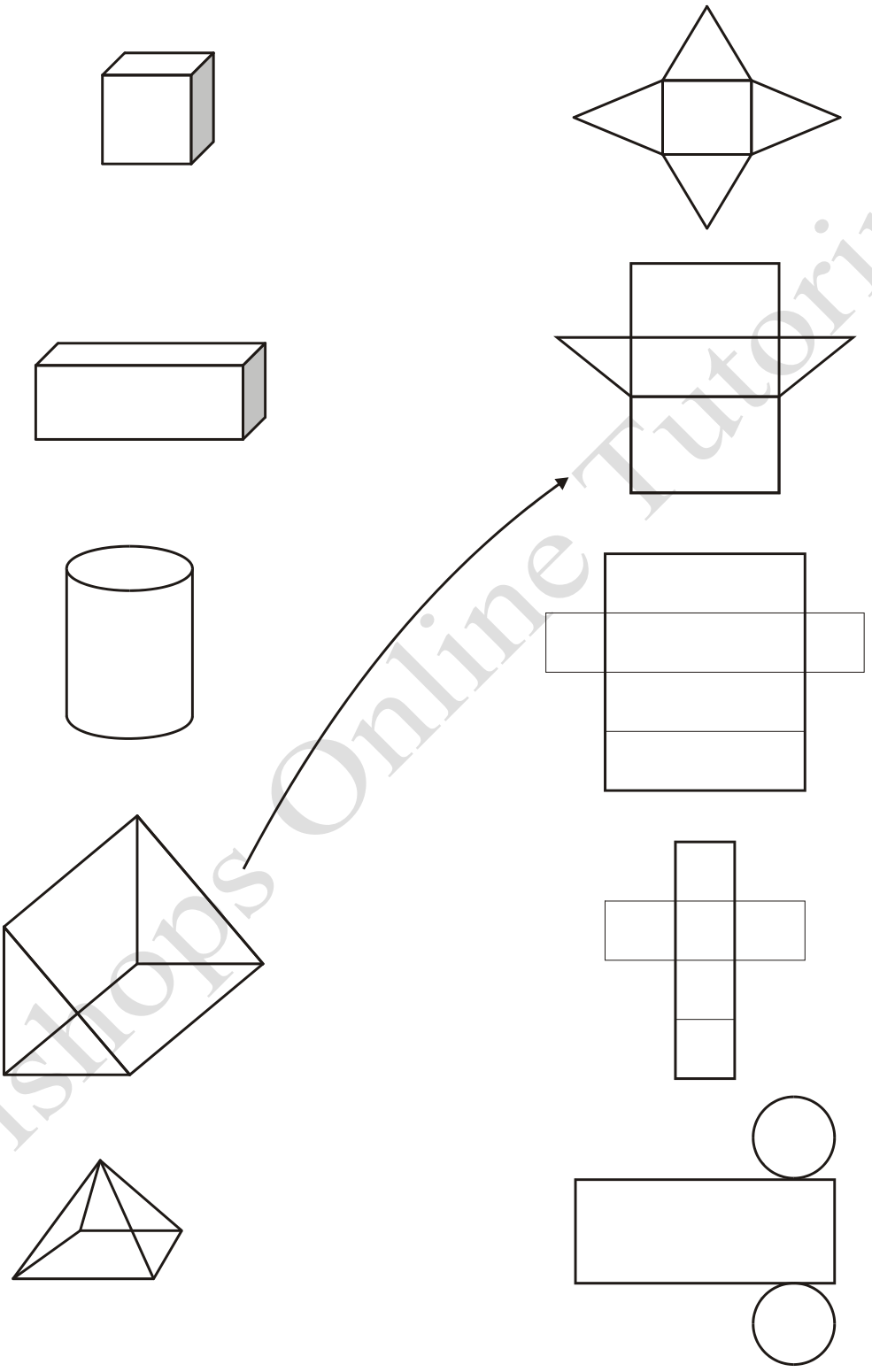
NO CALCULATOR ALLOWED

NAME:	

1.

The diagrams show some solid shapes and their nets.
An arrow has been drawn from one solid shape to its net.

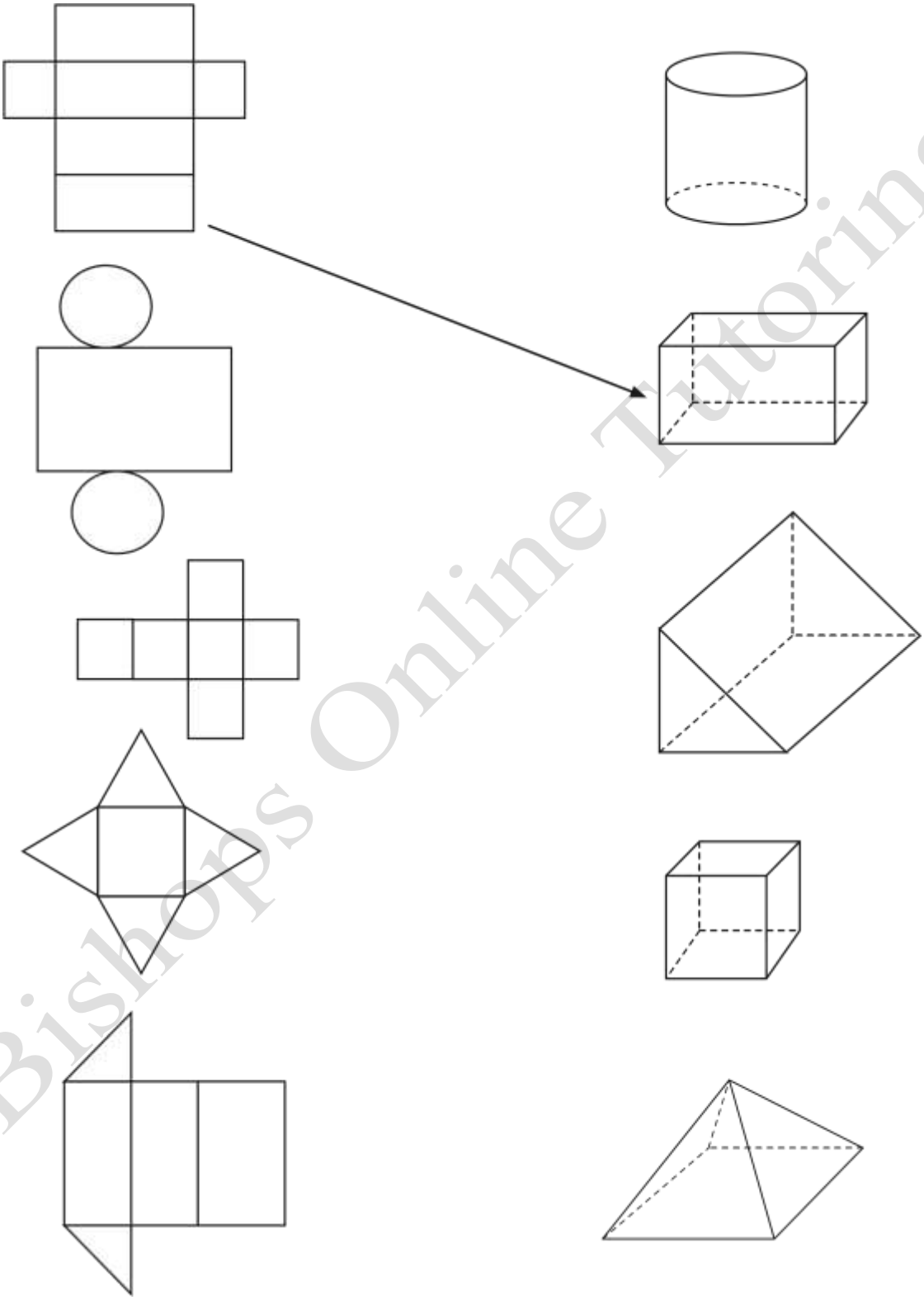
Draw an arrow from each of the other solid shapes to its net.



(3 marks)

2. The diagram shows some nets and some solid shapes.
An arrow has been drawn from one net to its solid shape.

Draw an arrow from each of the other nets to its solid shape.

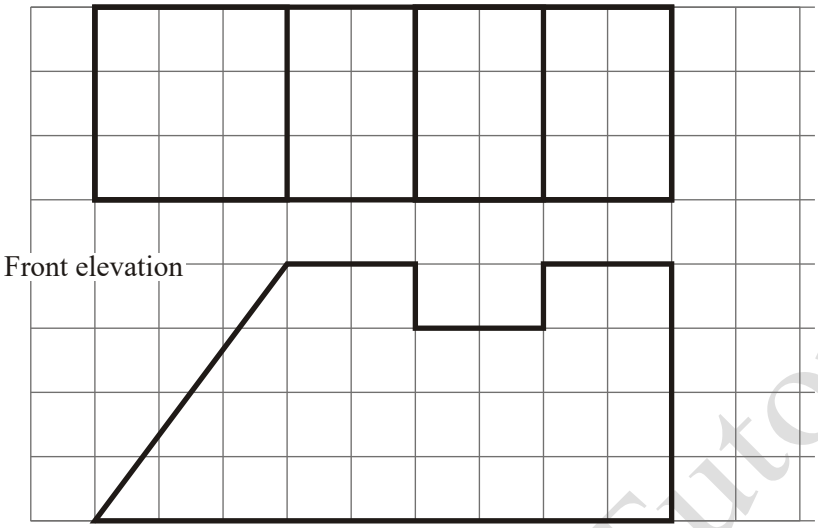


(3 marks)

3.

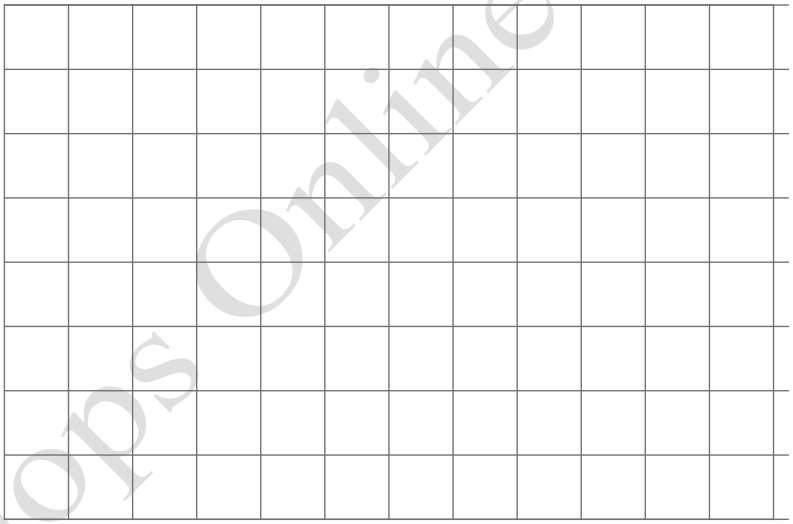
Here are the plan and front elevation of a prism.
The front elevation shows the cross section of the prism.

Plan



Front elevation

On the grid below, draw a side elevation of the prism.



(3)
(Total 3 marks)

4. The diagram shows a sketch of a solid object.
The solid object is made from five centimetre cubes.

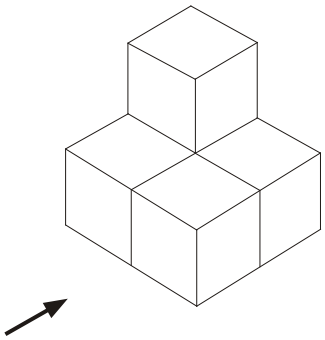
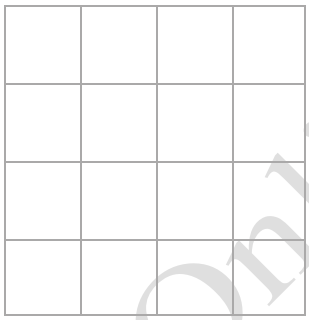


Diagram **NOT** accurately drawn

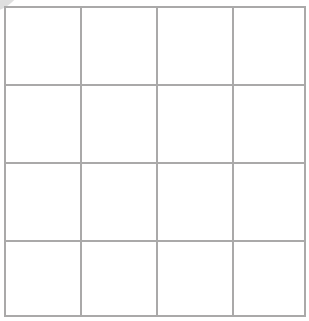
(a) On the grid of centimetre squares, draw the elevation of the solid object in the direction marked with an arrow.



Elevation

(2)

(b) On the grid of centimetre squares, draw the plan of the solid object.

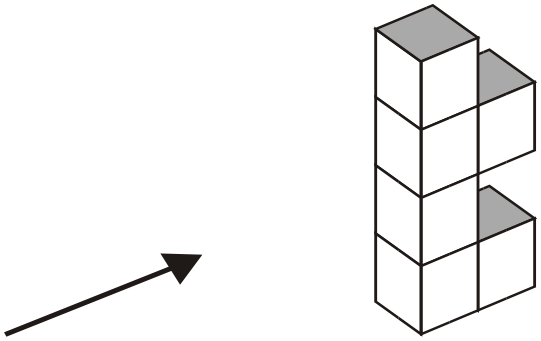


Plan

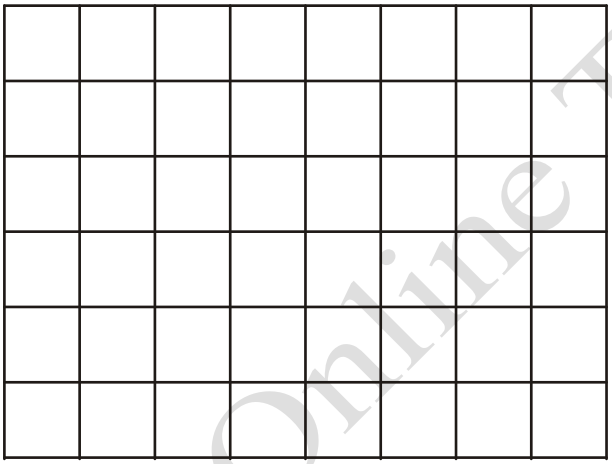
(2)
(Total 4 marks)

5.

The diagram shows a solid object made of 6 identical cubes.

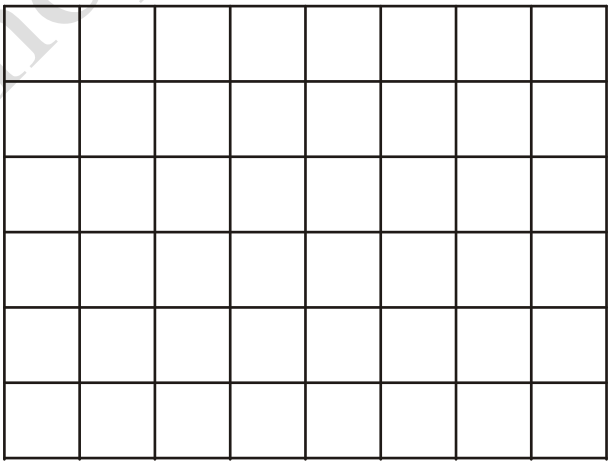


(a) On the grid below, draw the side elevation of the solid object from the direction of the arrow.



(2)

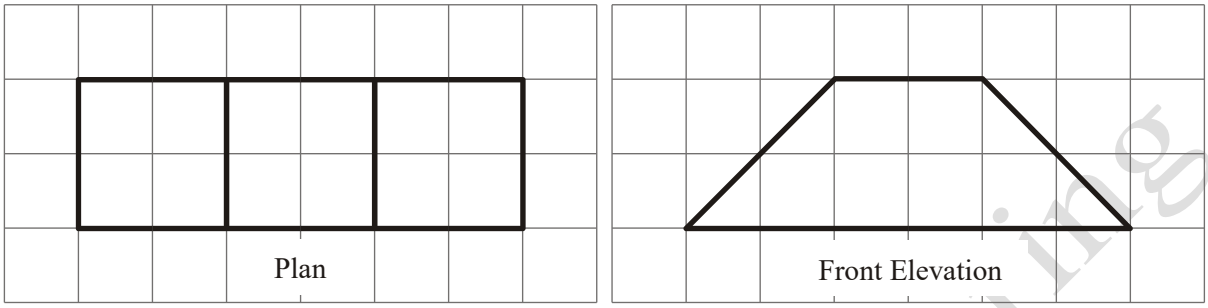
(b) On the grid below, draw the plan of the solid object.



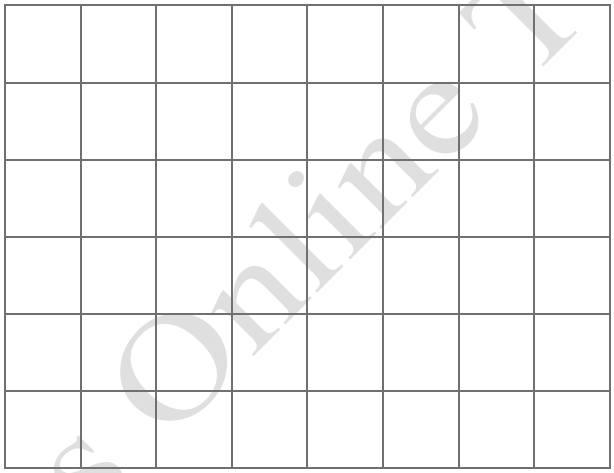
(2)
(Total 4 marks)

6.

Here are the plan and front elevation of a solid shape.



(a) On the grid below, draw the side elevation of the solid shape.



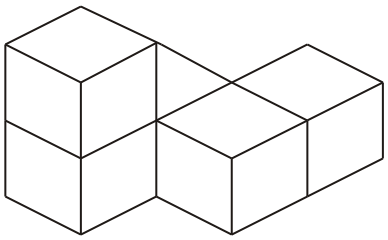
(2)

(b) In the space below, draw a sketch of the solid shape.

(2)
(Total 4 marks)

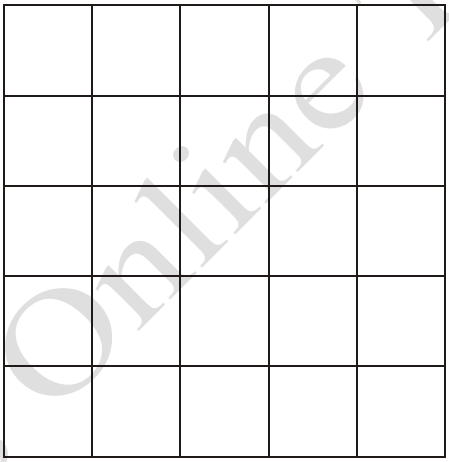
7.

The diagram represents a solid made from 5 identical cubes.



A

On the grid below, draw the view of the solid from direction *A*.



(Total 2 marks)