

## Projections and Elevations

Please write clearly in block capitals

Forename:

Surname:

### Materials

For this paper you must have:

- mathematical instruments



You **can** use a calculator.

### Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

### Information

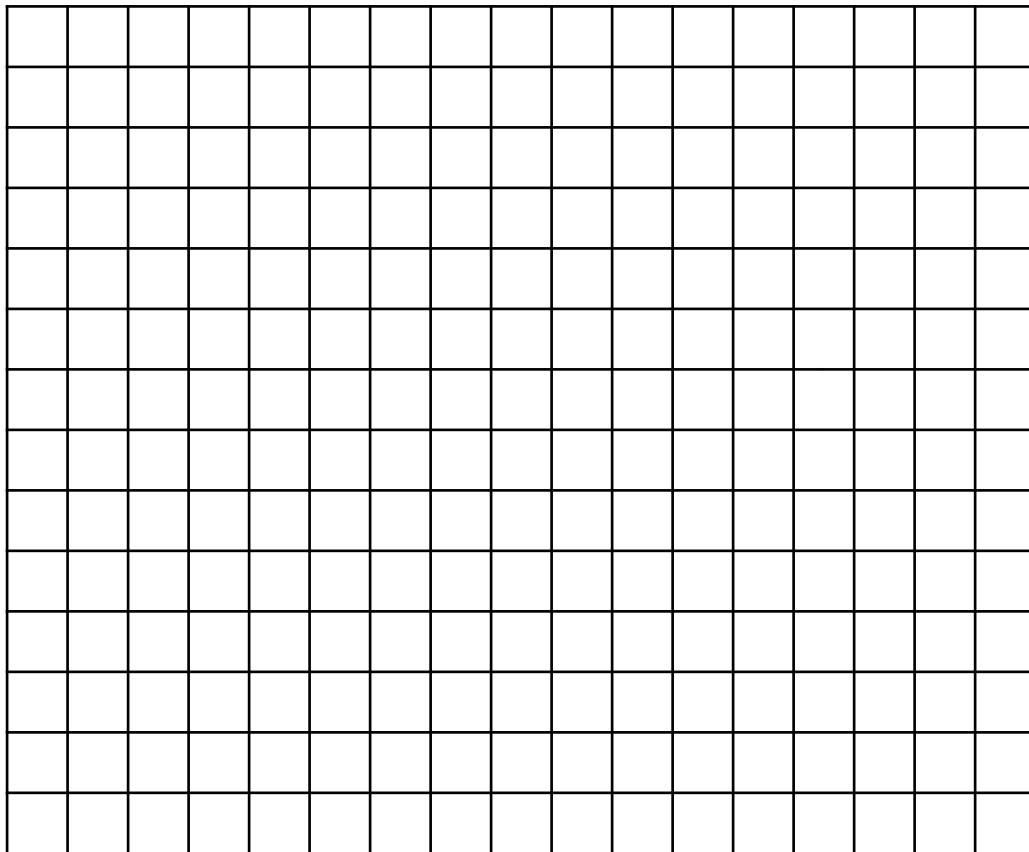
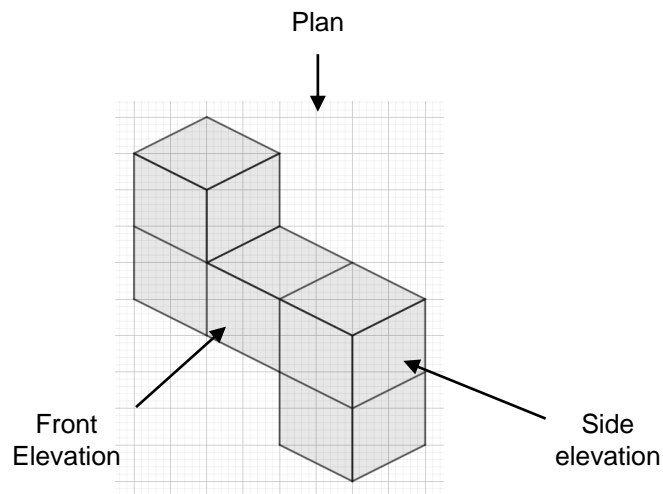
- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

### Advice

- In all calculations, show clearly how you work out your answer.

- 1 On the grid, draw the plan, front and side elevations of the shape below.

[3 marks]



Turn over for next question

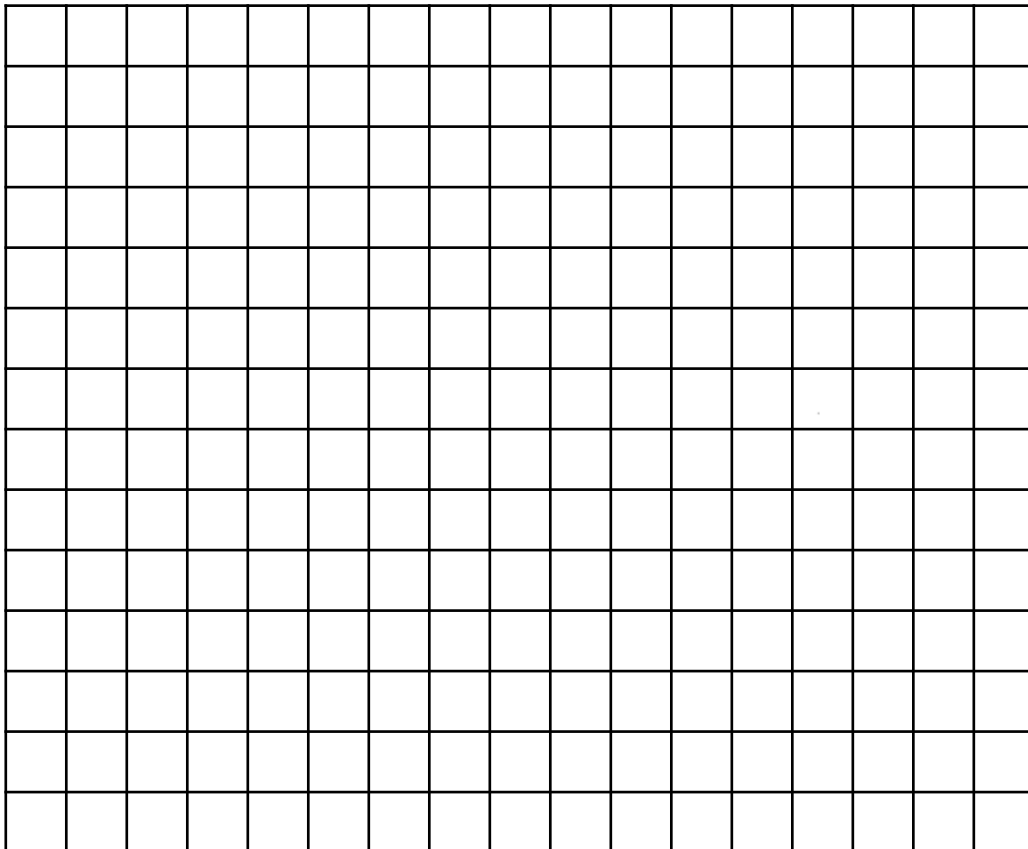
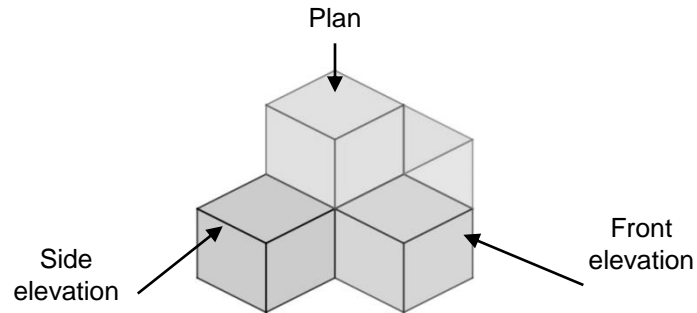
Turn over ►

2

A 3D shape is shown below.

Draw the plan, front elevation and side elevation of this shape.

[3 marks]



Turn over for next question

Turn over ►

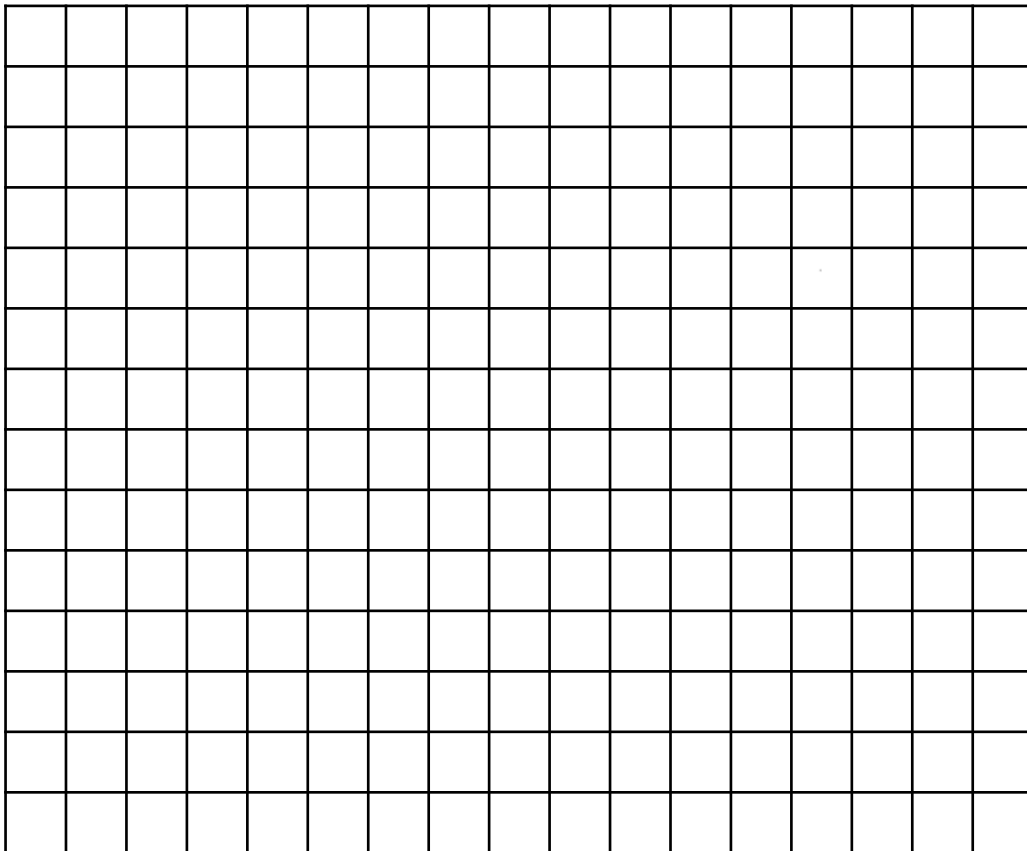
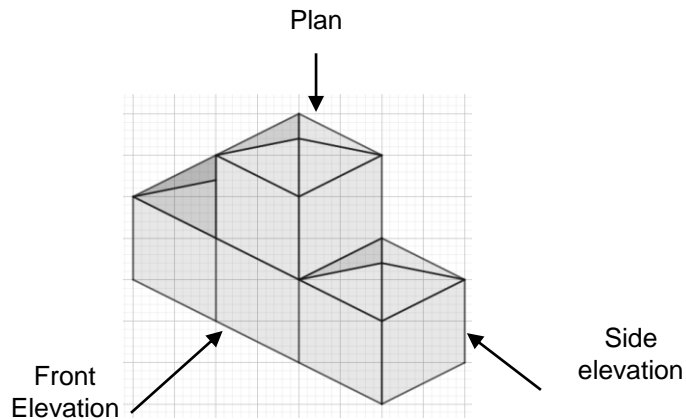
3

A shape is formed by placing three identical square based pyramids on top of a set of cubes.

The height of each pyramid is **half the height of a cube**.

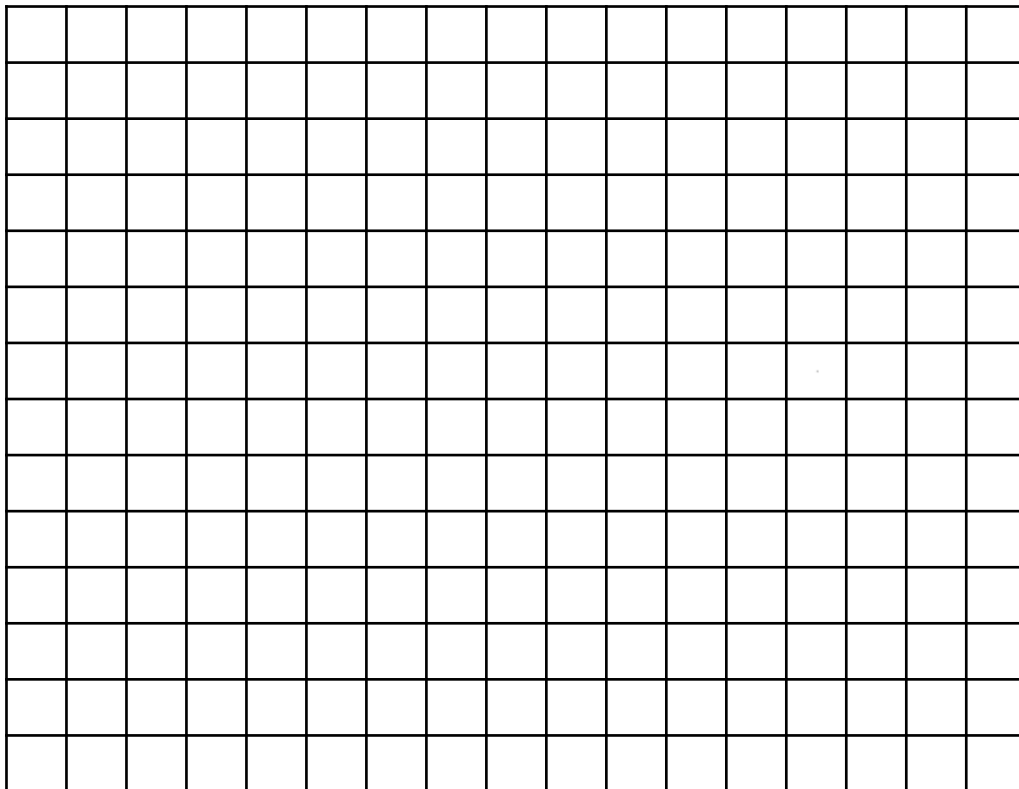
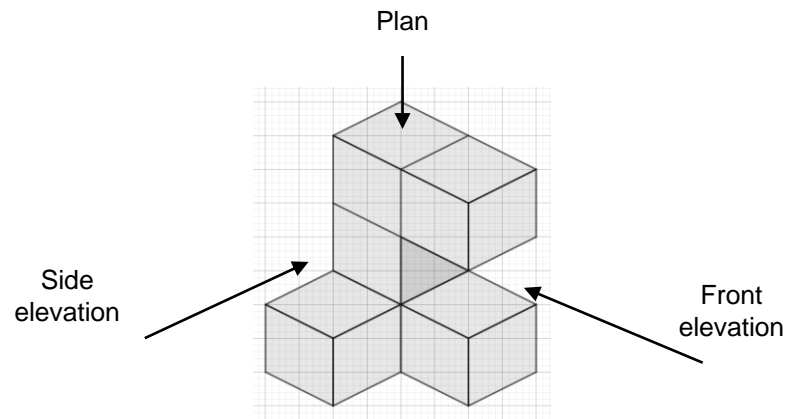
On the grid, draw the plan, front and side elevations of the shape.

[3 marks]



- 4 On the grid, draw the plan, front and side elevations of the shape shown below

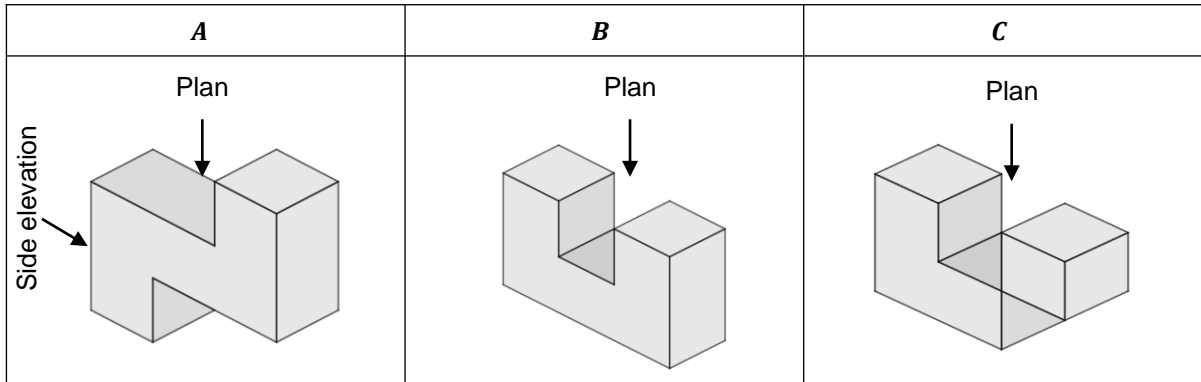
[3 marks]



Turn over for next question




Turn over ►

5 Three shapes *A*, *B* and *C* are shown below.






5(a) For each of the three plans, label the shape which correctly corresponds with the plan

[3 marks]

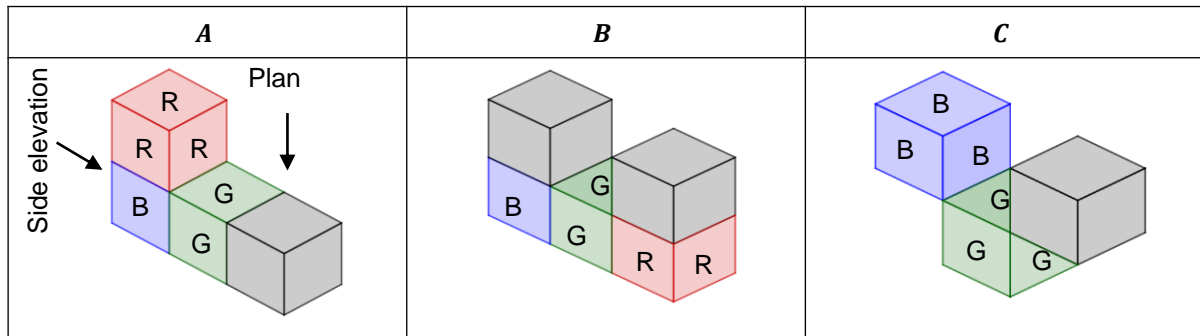
| Plans   | Shape: |
|---|--------|
|   |        |
|  |        |
|  |        |

5(b) For each of the three side elevations, label the shape which correctly corresponds to each side elevation.

[3 marks]

|                 |   |   |   |
|-----------------|---|---|---|
| Side Elevations |  |  |  |
| Shape           |   |   |   |

6 Three shapes, *A*, *B* and *C* are shown below.



6(a) For each of the three plans, label the shape which correctly corresponds with the plan

[3 marks]

| Plans | Shape: |
|-------|--------|
|       |        |
|       |        |
|       |        |

6(b) For each of the three side elevations, label the shape which correctly corresponds to each side elevation.

[3 marks]

|                 |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|
| Side Elevations |  |  |  |  |  |  |
| Shape           |  |  |  |  |  |  |