

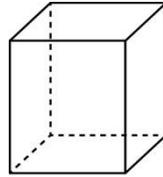
NAME _____

Time: _____

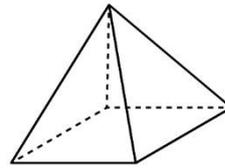


Calculator Questions

1 Here are two solid shapes.



A



B

a Write down the number of vertices of shape *A*.

(1 mark)

b Write down the number of faces of shape *B*.

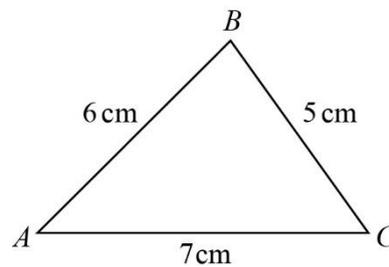
(1 mark)

c Write down the number of edges of shape *B*.

(1 mark)



3 The diagram shows a sketch of triangle *ABC*.



Use a ruler and compasses to draw an accurate diagram of triangle *ABC* in the space below.

The 7 cm side has been drawn for you.



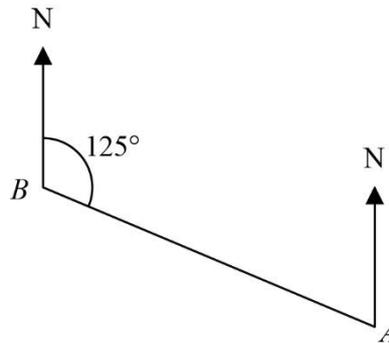
(3 marks)



- 5 Van X travels 324km and uses 24 litres of petrol.
 Van Y travels 290km and uses 20 litres of petrol.
 Which van uses petrol more economically?
 You must show your working.



7

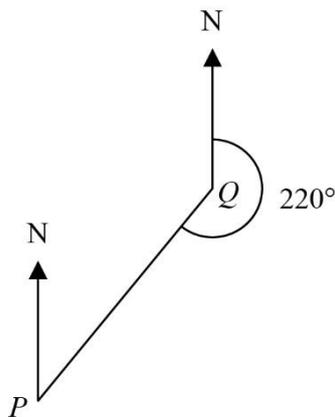


(3 marks)

The bearing of A from B is 125° .

- a Work out the bearing of B from A.

(2 marks)



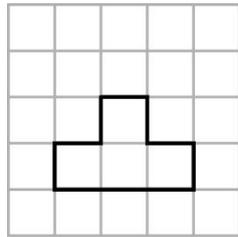
The bearing of P from Q is 220° .

- b Work out the bearing of Q from P.

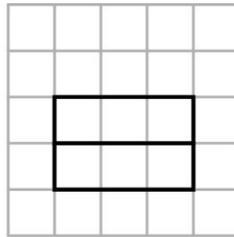
(2 marks)



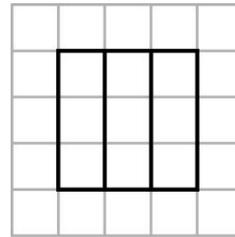
9 Here are the front elevation, side elevation and plan of a 3D solid.



Front
elevation



Side
elevation



Plan

In the space below, draw a sketch of the 3D solid.

(2 marks)



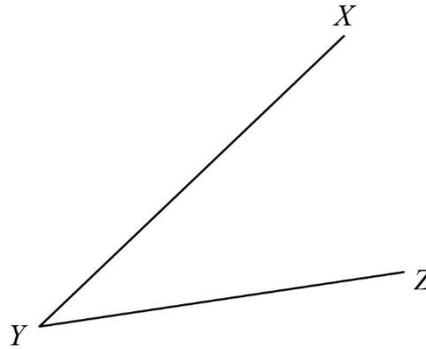
11 a Using a ruler and compass, bisect the line AB .
You must show all your construction lines.



(2 marks)



- b Using ruler and compasses, bisect the angle XYZ .
You must show all your construction lines.



(2 marks)



- 13 The diagram represents a garden $ABCD$.
The scale of the diagram is 1 cm represents 1 m.



A tree is to be planted in the garden so that it is

- nearer to BC than BA
- more than 1 m from side DC
- more than 3 m from corner C .

Show, by shading on the diagram, the region where the tree may be planted.

(4 marks)

Overall mark	/23
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