

## Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Don't spend too long on one question.
- 3. Attempt every question.
- 4. Check your answers seem right.
- 5. Always show your workings

Revision for this topic

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Video 332



1. Shown is a cube with side length 5cm.



Calculate angle CAG.



2. Shown below is a cuboid.



Length AG = 16cm Angle CAG is  $35^{\circ}$ 

Work out the length of EG.

.....cm (3) 3. A tree is located in the corner of a rectangular field.



The field is 15 metres long and 12 metres wide. The tree is 5 metres tall.

Calculate angle CAE.

.....° (4) 4. Shown below is a square based pyramid. The apex E is directly over the centre of the base.



AD = 20cm CE = 26cm

(a) Work out the length of AC

.....cm (**2**)

(b) Calculate angle CAE

• (2)

(c) Work out the height of the pyramid

.....cm (2)

(d) Calculate the volume of the pyramid

.....cm<sup>3</sup> (2) 5. Shown below is a rectangular based pyramid. The apex E is directly over the centre of the base.



AD = 8cm CD - 5cm CE = 10cm

(a) Calculate the height of the pyramid

.....cm (4)

(b) Calculate angle between the face ABE and the base ABCD

······ ° (3)