## Exam Style Questions

## 3D Trigonometry

## 2 <br> Corbettmoths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser
You may use tracing paper if needed

## 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

www.corbettmaths.com/contents


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


Calculate angle CAG.
2. Shown below is a cuboid.


Length $A G=16 \mathrm{~cm}$
Angle CAG is $35^{\circ}$
Work out the length of EG.
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. Shown below is a square based pyramid.

The apex E is directly over the centre of the base.

$A D=20 \mathrm{~cm}$
$C E=26 \mathrm{~cm}$
(a) Work out the length of AC
(b) Calculate angle CAE
(c) Work out the height of the pyramid
(d) Calculate the volume of the pyramid
5. Shown below is a rectangular based pyramid.

The apex $E$ is directly over the centre of the base.

$A D=8 \mathrm{~cm}$
CD -5 cm
$C E=10 \mathrm{~cm}$
(a) Calculate the height of the pyramid
(b) Calculate angle between the face $A B E$ and the base $A B C D$

