

## Coordinates in 3-D Space

### Starter

1. **(Review of last lesson)** From A, B lies 11 km away on a bearing of  $041^\circ$  and C lies 8 km away on a bearing of  $341^\circ$ . Find:
- the distance between B and C to 3 s.f. and
  - the bearing of B from C, to the nearest degree.

### Notes

In 3-dimensions, the  $z$ -axis comes out of the page/whiteboard.

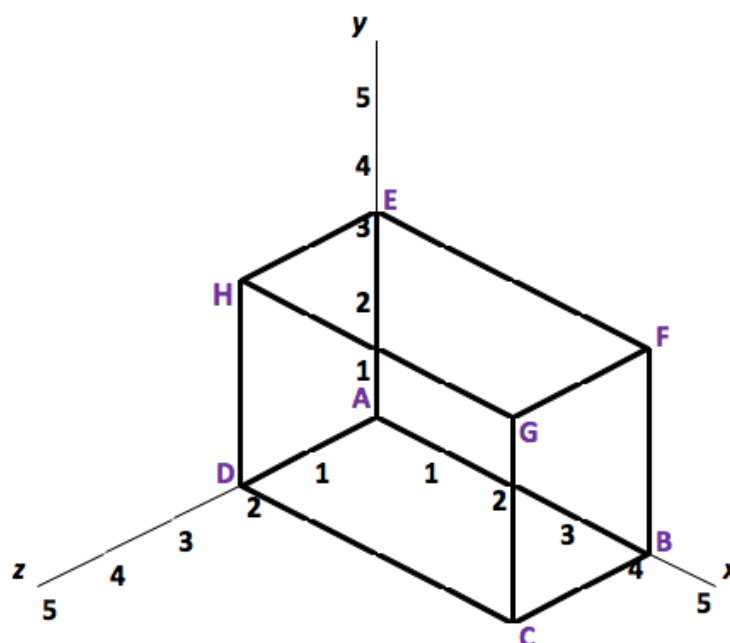
Coordinates are written  $(x, y, z)$

To simulate this in a 2-D drawing, we draw the axes as if on isometric paper.

**E.g. 1** Write down the coordinates of the vertices of the cuboid.

$$A(0, 0, 0)$$

$$B(4, 0, 0)$$



[Solutions to Starter and E.g.s](#)

### Exercise

9-1 class textbook:

p574 M18.4 Qu 1-5

A\*-G class textbook:

p534 M18.4 Qu 1-5

9-1 homework book:

p193 M18.4 Qu 1-4

A\*-G homework book:

p148 M18.4 Qu 1-4

[Homework book answers \(only available during a lockdown\)](#)