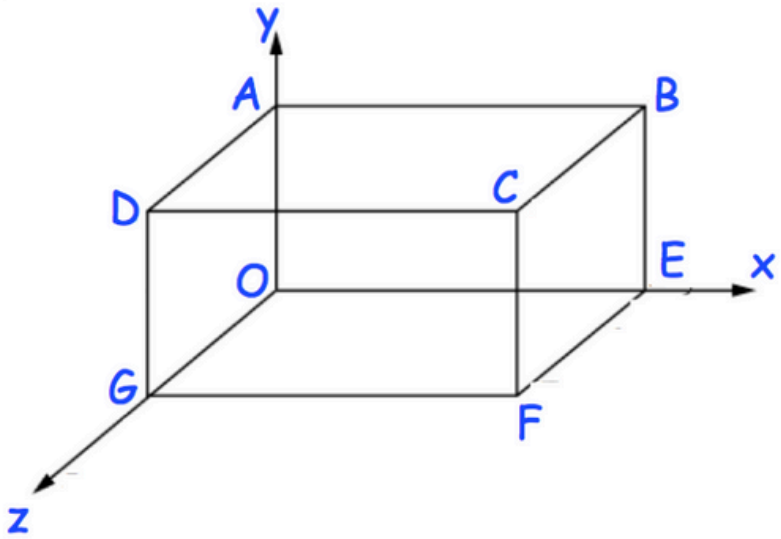
3D Coordinates

Name: Date:

Determine the coordinates of a point from each of the diagrams shown below.

1. The diagram shows a cuboid drawn on a 3D grid. C has coordinates (5, 2, 3).



a. Write down the coordinates of the point A.

(_____, _____, _____)

b. Write down the coordinates of the point F.

(_____, _____, _____)

c. The coordinate H is the midpoint of FG. Write down the coordinates of the point H.

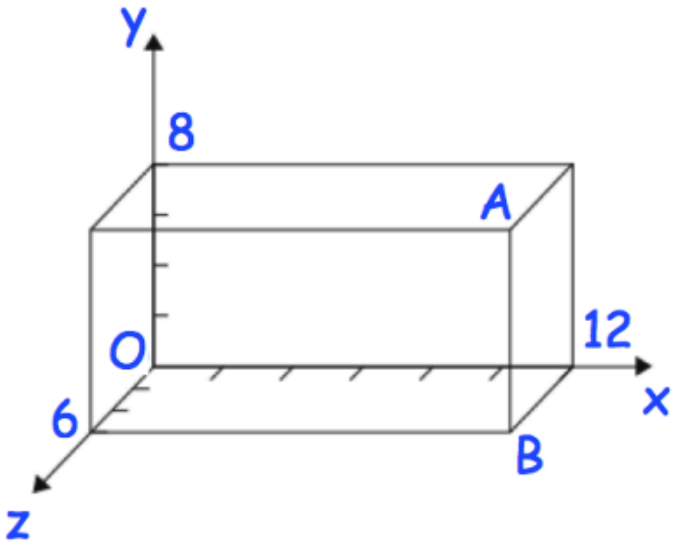
(_____, _____, _____)

3D Coordinates

Name: Date:

Determine the coordinates of a point from each of the diagrams shown below.

2. Here is a cuboid drawn on a 3D grid.



a. Write down the coordinates of the point A.

(_____, _____, _____)

b. Write down the coordinates of the point B.

(_____, _____, _____)

c. The coordinate C is the midpoint of AB. Write down the coordinates of the point C.

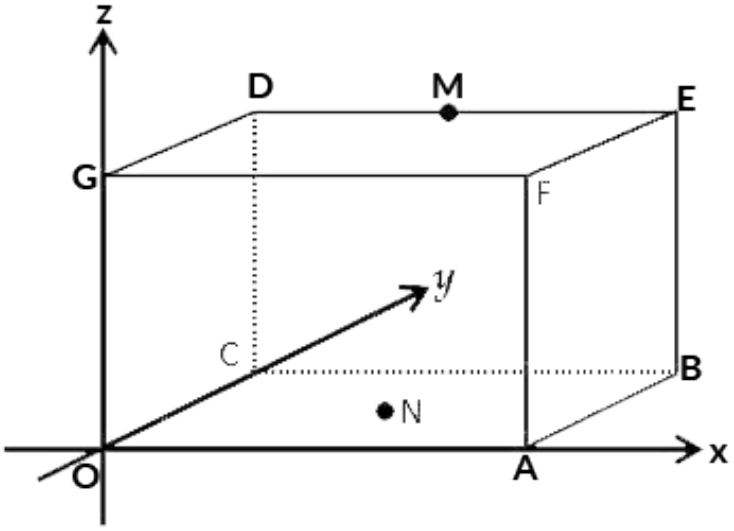
(_____, _____, _____)

3D Coordinates

Name: Date:

Determine the coordinates of a point from each of the diagrams shown below.

3. The diagram shows a cuboid OABCDEFG, relative to the coordinate axes.



- OA = 8 units.
- OC = 5 units.
- OG = 6 units.
- M is the midpoint of DE.
- N is the point at the centre of the base.

a. Write down the coordinates of the point A.

(_____, _____, _____)

b. Write down the coordinates of the point D.

(_____, _____, _____)

c. Write down the coordinates of the point E.

(_____, _____, _____)

d. Write down the coordinates of the point M.

(_____, _____, _____)

Answers

3D Coordinates

1
(a) (0, 2, 0) (b) (5, 0, 3) (c) (2.5, 0, 3)
2
(a) (12, 8, 6) (b) (12, 0, 6) (c) (12, 4, 6)
3
(a) (8, 0, 0) (b) (0, 5, 6) (c) (8, 5, 6) (d) (4, 5, 6)