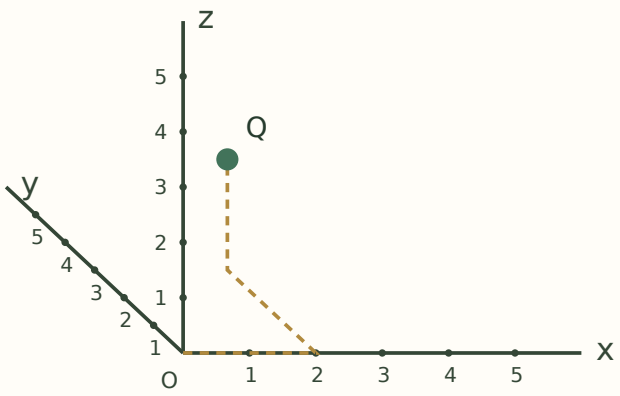
Practice worksheet | Coordinates and three-dimensional space

Interpreting 3D axes

Name: _____ Date: _____

6 questions | 12 marks

1. State Q’s coordinates from the labelled diagram. [2 marks]



Dashed route follows x, then y, then z.
Sketch of 3D axes; each numbered step is 1 unit.

2. From (1,2,3), move parallel to x until x=4. State the new position. [2 marks]

3. Find the floor projection of (5,1,4). [2 marks]

4. A point is on the y-axis with y=4. Write its coordinates. [2 marks]

5. Can you read an exact point from an unlabelled 3D sketch with no scale? Explain. [2 marks]

6. A construction reaches (3,0,0), then (3,2,0), then (3,2,4). Name the direction of each leg. [2 marks]