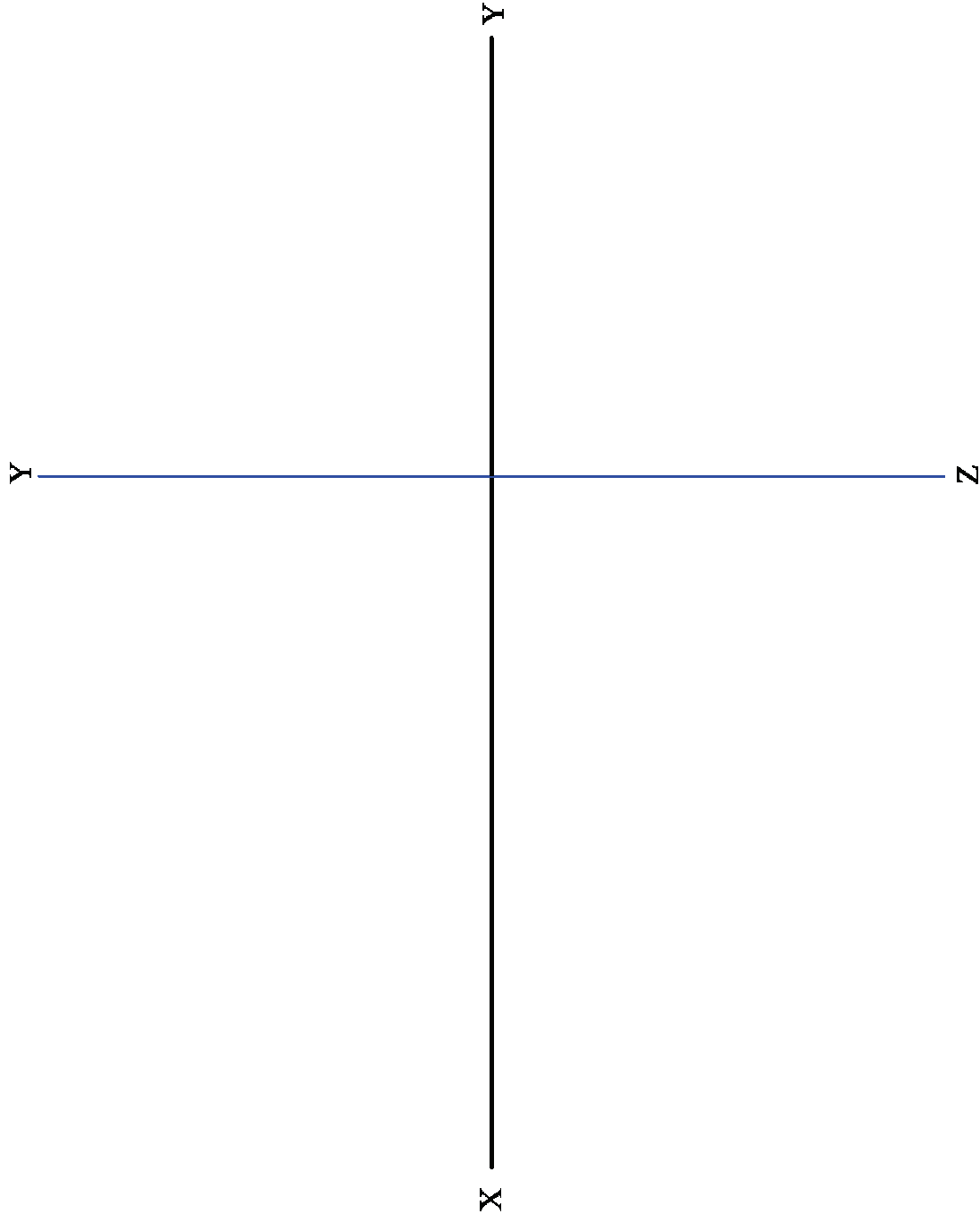
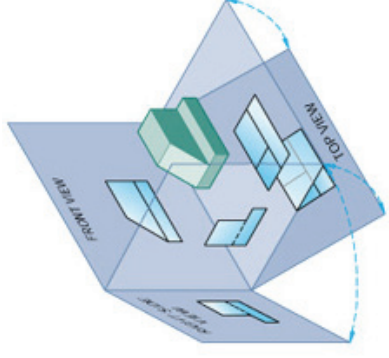
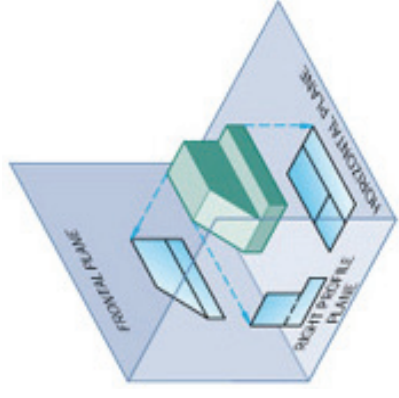
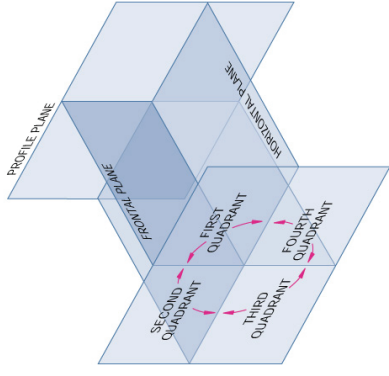


**Orthographic projection** is a means of representing a three-dimensional (3D) object in two dimensions (2D).

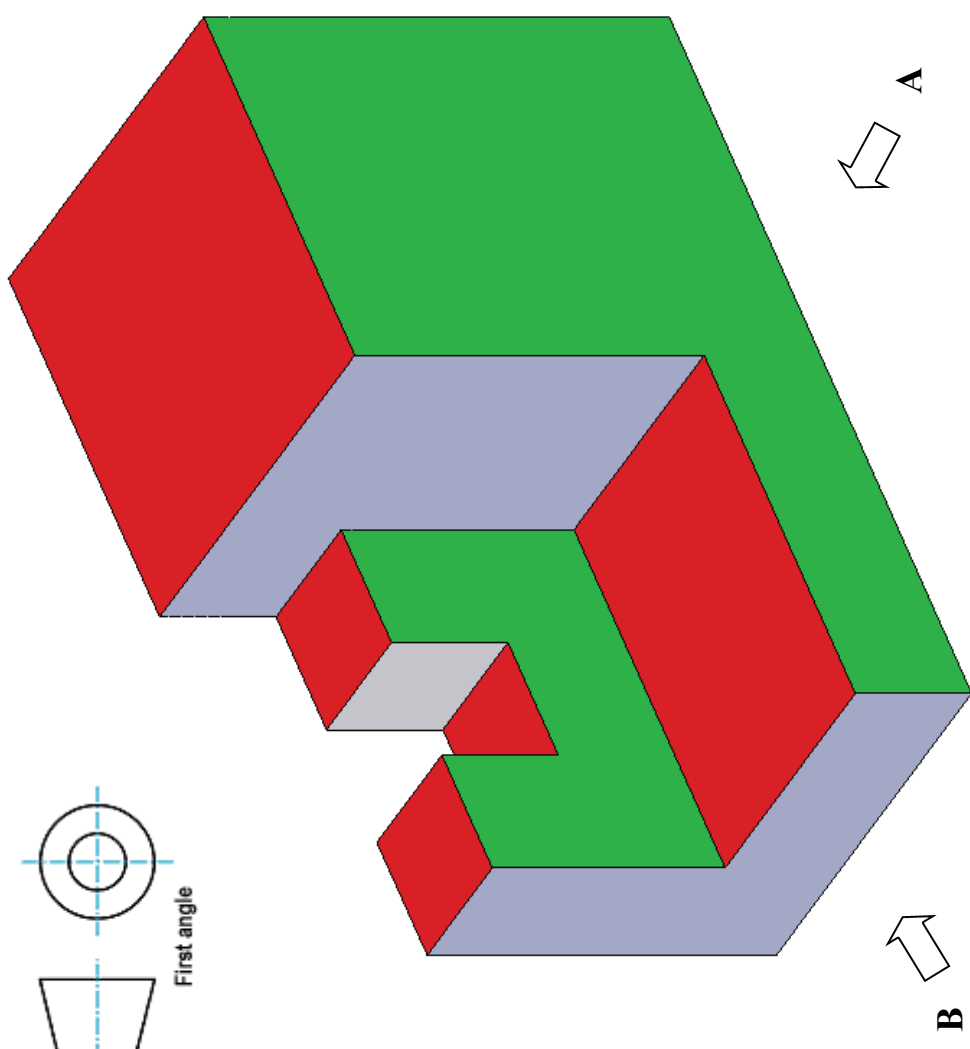
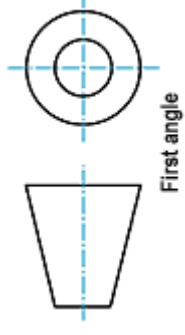
It is the projection by parallel rays onto a plane at right angles to the rays.



**Learning Outcomes**

Students should be able to:

- Demonstrate an understanding of the planes of reference
- Complete the orthographic views of a basic solid in 1st angle projection.



A pictorial view of a shaped solid is shown. The object is positioned 15mm from the vertical plane.

- Draw an elevation looking in the direction of A.
- Draw an end elevation looking in the direction of B.
- Draw a plan projected from (a) above.

Use your compass to step off the distances from the pictorial view.

