#### **BA SANGAM COLLEGE**

## YEAR 10

# **BASIC TECHNOLOGY**

## **WORKSHEET 4**

#### **TOPIC: FIRST ANGLE ORTHOGRAPHIC**

#### **2D DRAWINGS**

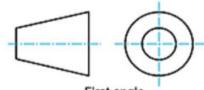
#### **ORTHOGRAPHIC PROJECTION**

## **Types of Orthographic Drawing (Projection)**

- 1. First Angle Projection
- 2. Third Angle Projection

# FIRST ANGLE ORTHOGRAPHIC PROJECTION

First angle projection is a method of creating two-dimensional (2D) drawings out of a three-dimensional (3D) object. The views are drawn as if a torch is shined on the object and a shadow is projected on the wall behind the object. This is important information for the layperson when interpreting drawings.



First angle

#### IMPORTANT POINTS TO NOTE:

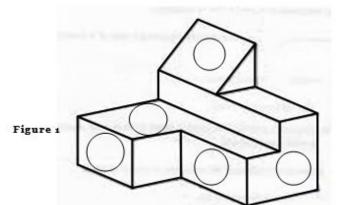
- ALWAYS START DRAWING
  FROM MAIN ELEVATION
- MAIN ELEVATION IS ALSO
  KNOWN AS FRONT ELEVATION
- MAIN ELEVATION WILL BE ON TOP OF THE REFERENCE LINE
- PLAN WILL BE BELOW THE REFERENCE LINE
- FOR RIGHT END ELEVATION LOOK FROM THE RIGHT SIDE AND DRAW ON THE LEFT SIDE OF MAIN ELEVATION
- FOR LEFT END ELEVATION LOOK FROM THE LEFT SIDE AND DRAW ON THE RIGHT SIDE OF MAIN ELEVATION

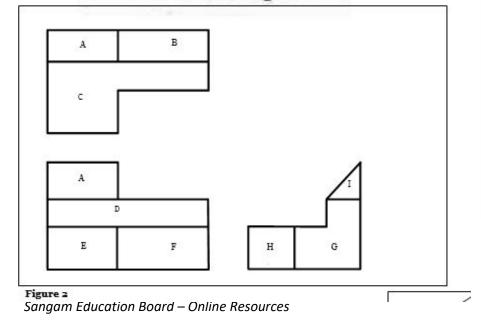
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#### EXERCISE 1

The faces on the orthographic view of a given multi-shaped block are indicated by letters in **Figure 2**.

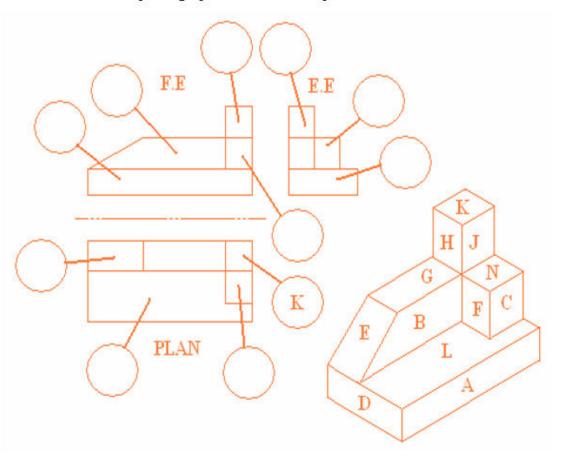
Write the correct letters in the circles in **Figure 1** to match their corresponding faces in **Figure 2**.





EXERCISE 2

Write down the corresponding alphabets in the circles provided.



## EXERCISE 1

GIVEN: The Pictorial view of a shaped block.

REQUIRED: Draw and label the Elevation, Plan and End Elevation using first angle orthographic projection. *Take measurements directly from the pictorial view*.

5	Accuracy - length, width	1	
6	Correct shape	2	
7	Correct line work	1	
8	Overall neatness	1	
	END ELEVATION		
9	Accuracy - length, width	1	
10	Correct shape	2	
11	Correct line work	1	
12	Overall neatness	1	

