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CIVIL ENGINEERING

ENGINEERING DRAWING

## SUBJECTIVE

1. By Using Cross Hatching.
2. i.) A dimension line should never coincide with an object or centre line.  
ii.) Dimension should be at least 10mm from the object outline.  
iii.) Where there are several parallel dimension lines in group, the dimension figures should be staggered so that they will not interfere with one another.  
iv.) All dimension extension and leader should be thin, sharp, dark lines.
3. (a) Half section: This is a view of an object showing one half of the view in section.  
  
(b) Full section This is when the imaginary cutting plane passes through the entire object splitting the drawn object in two with the interior of the object revealed.
- 4.
5. (a) Scale 5:1: Each division represents 5mm and the measurements will be scaled .  
(b) scale 1:10: Each division represents 10mm and the measurements will be scaled .
- 6.

7. Orthographic projection: this is also a means of representing three dimensional objects in two dimension .
8. That is when all of it is represented on the plan in two dimension.
9. (a)First angle projection: for the plan position is below.  
(b)Third angle projection:The plan is placed above in the plane while the front sides are placed below.

## OBJECTIVES

1. Reference plane(A)
2. False(B)
3. Directly(c)
4.  $120^*$ (B)
5.  $60^*$ (A)
6. Rivet(B)
7. Crowning(C)
8.  $45^*$ (B)
9. A Circle(A)
10. An Ellipse(A)
11. Cylinder(C)
12. Frustrum(D)
13. Pivot Bearing(C)
14.  $55^*$ (C)
15. Horizontal Plane(D)