

18/ENG04/038 Chiemezie John Ezeigbo

Theory

1.

2. Rule 1:

Dimensions should not be duplicated, nor should the same info be given in two different ways

Rule 2:

Dimensions should be attached to the view that best shows the contour of the feature being dimensioned

Rule 3:

Wherever possible avoid dimensioning to hidden lines

Rule 4:

Avoid dimensions over or through the object

Rule 5:

Wherever possible locate dimensions in adjacent views

Rule 6:

In general a circle is measured by its diameter circle with line through it, and arc by its radius
R0.50

Rule 7:

Holes are located by their centerlines, which may be extended and used as an extension line

Rule 8:

Holes should be located and sized in the view that shows that feature as a circle

3. I- Half-Sections. A half-section is a view of an object showing one-half of the view in section, as in the drawing below. The diagonal lines on the section drawing are used to indicate the area that has been theoretically cut. These lines are called section lining or cross-hatching.

II- Full Sections. In a full section, the cutting plane line passes fully through the part. Normally a view is replaced with the full section view. The section-lined areas are those portions that have been in actual contact with the cutting-plane.

4.

5. (a) Scale 5-1 means five times more than original size

(b) Scale 1-10 means ten times smaller than original size

6.

Objective

1. C

2. B

3. A

4. A

5. A

6. B

7. A

8. B

9. B

10. A

11. C

12. A

13. D

14. C

15. A