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MECHANICAL ENGINEERING
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1) To represent a sectional surface on a drawing line is drawn at 45° and are spaced about 118° apart

2) Principles of dimensioning

- All dimensions information necessary to define a part clearly and completely shall be shown directly on a drawing

- Each feature shall be dimensioned once only on a drawing

- Dimensions shall be placed on the view or section that shows clearly, the corresponding features.

- As far as possible, on a drawing, dimensions should be expressed in one unit only preferably millimeters (mm)

- No more dimensions that are necessary to define a part shall be shown on the drawing

3) Full sections: This is when the cutting plane passes through the object. It should be noted that all edges behind the plane must show. Hidden details however are not shown on a sectional view unless needed to describe the object completely

Half sections: Symmetrical objects may be shown to advantage by half sections, that is with one half drawn in section and the other as an outside view.

- f) - by arrow terminator used to point to an edge of an item
- by dot terminator used to point to a face
- by architectural term used for referring to multiple parallel edges.

5) 5: 1 - this means the original measurement is 5 times smaller.

1: 10 - this means the original measurement is 10 times bigger

OBJECTIVES

B

B

C

B

A