Dept. of Medical Instrumentations Engineering

First Stage / Academic Year: 2020-2021

Subject: Engineering Drawing

Instructor: Assist. Prof. Dr. Saad Alkhfaji

==========

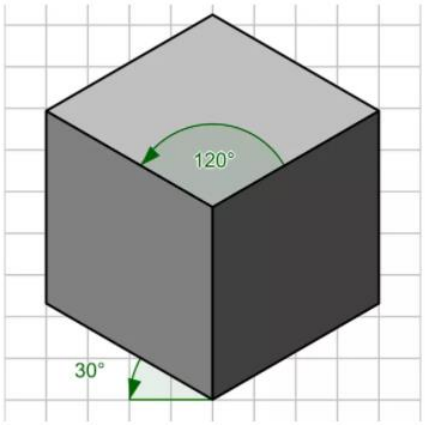
Isometric drawing

What is Isometric Drawing?

An isometric drawing is a 3D drawing of an object on 2D surfaces (like drawing sheet or paper) which is set out using 30-degree angles.

One of the defining characteristics of an isometric drawing, compared to other types of 3D representation, is that the final image is not distorted. This is due to the fact that the foreshortening of the axes is equal. The word isometric comes from Greek to mean 'equal measure'. Isometric drawings use parallel projection, which means objects remain at the same size.

Isometric drawings are very useful for designers and engineers, as they are ideal for visualizing products, and infrastructure. They're a great way to quickly test out different design ideas.



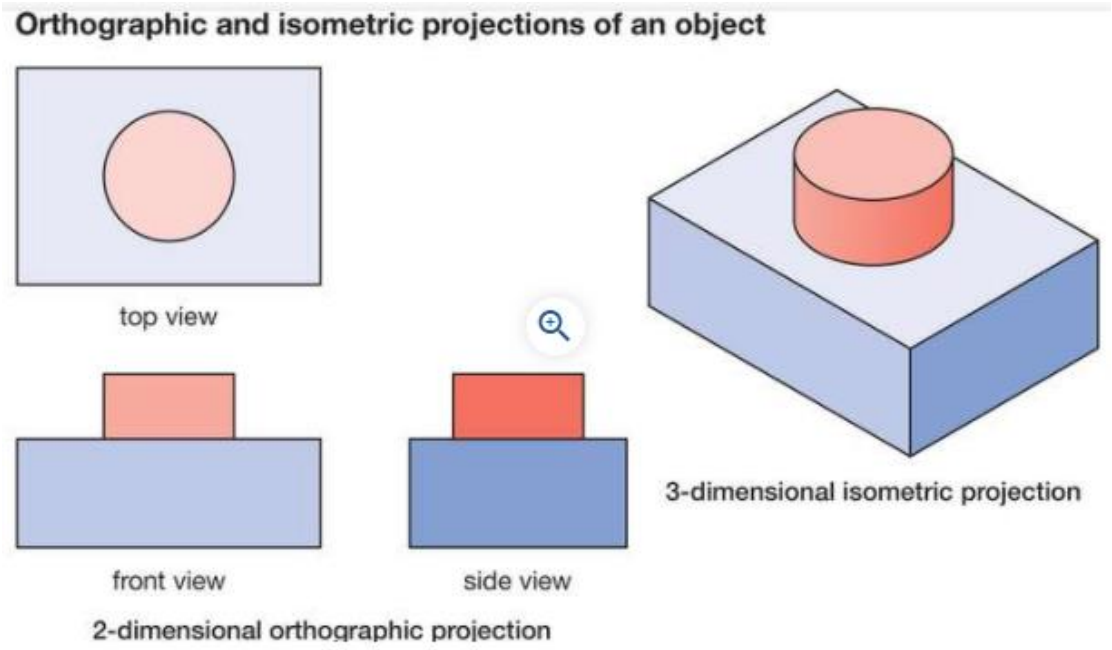
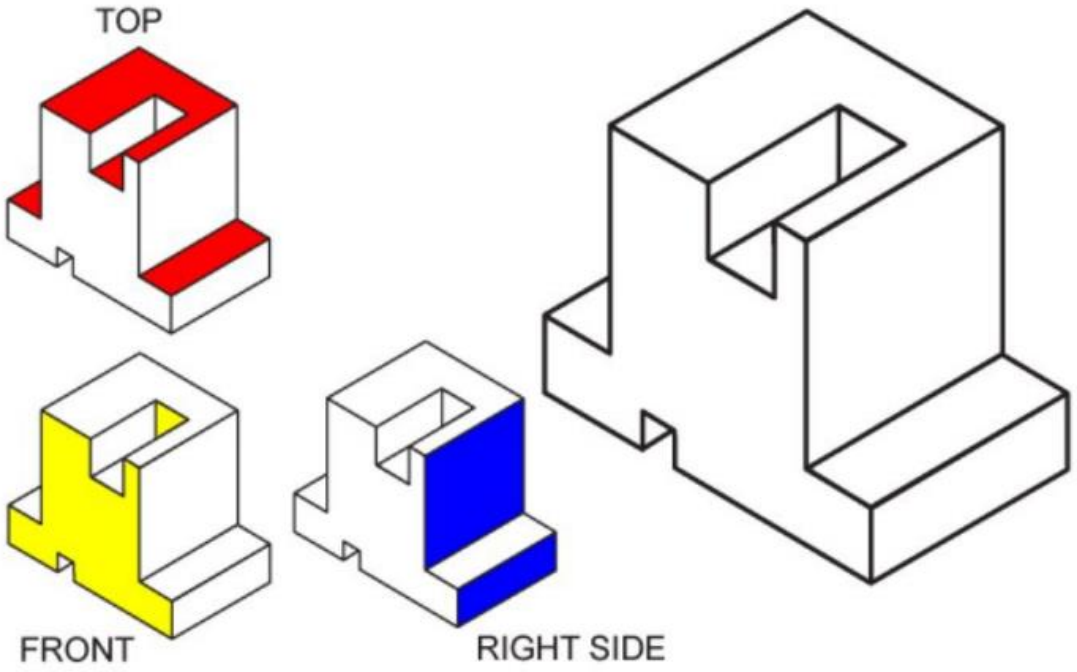
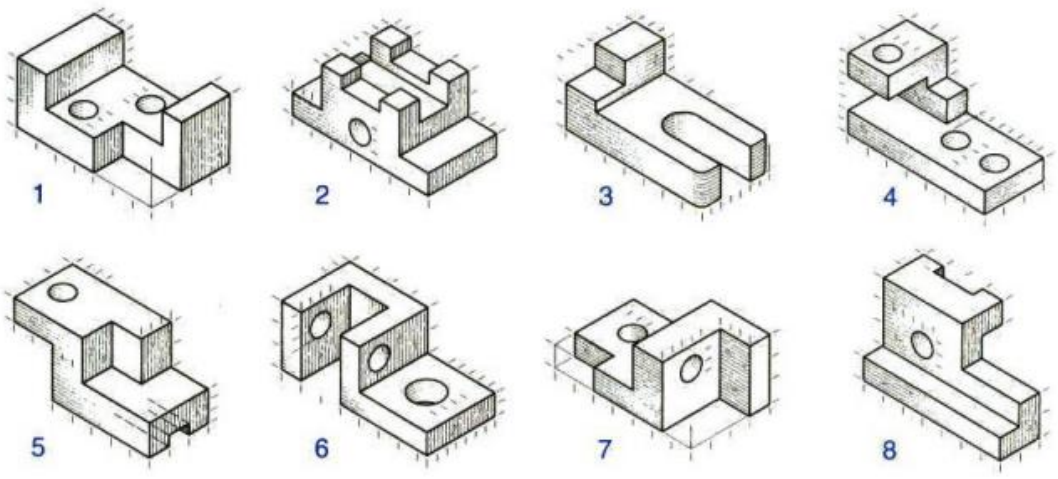
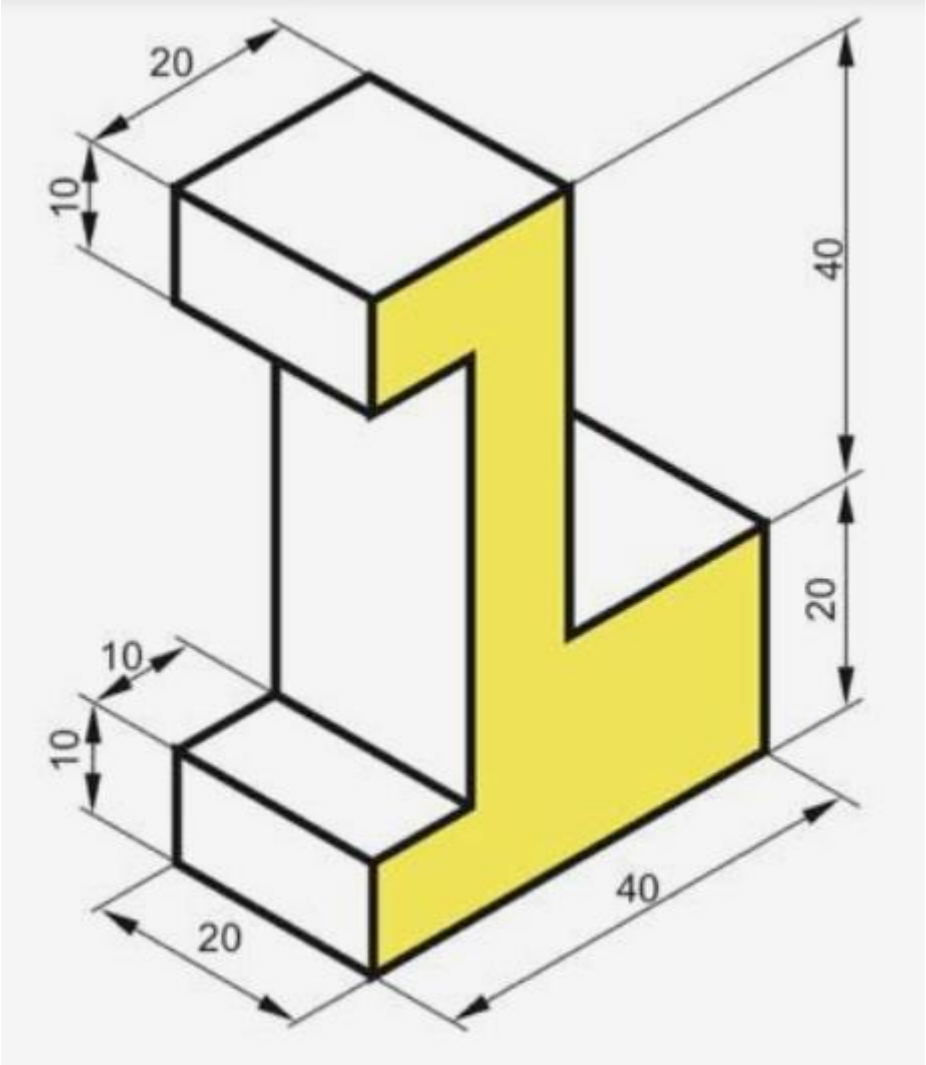


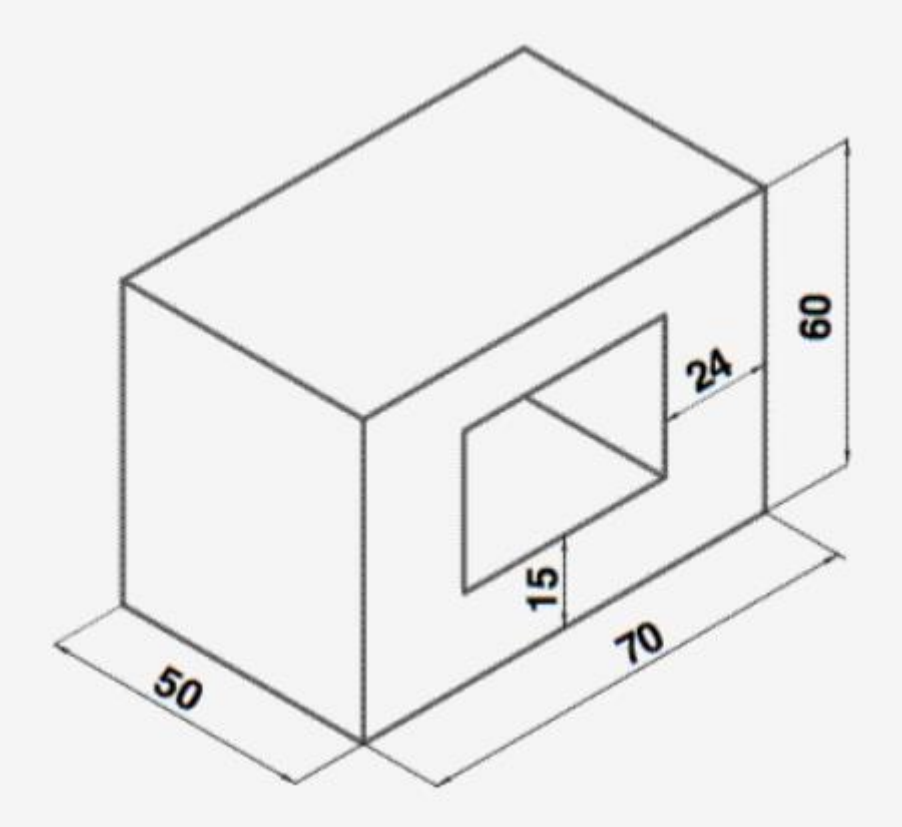
Image: Encyclopædia Britannica, Inc.





Example 1: Draw the following isometric drawings as shown in below:




60
24
15
70
50

H.W. Draw the following isometric shapes:

