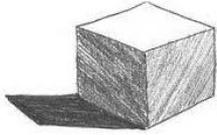
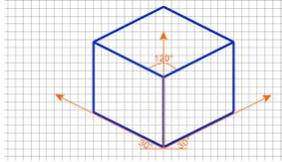
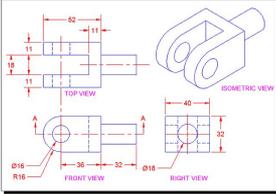
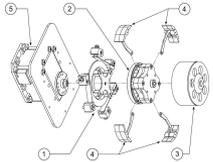
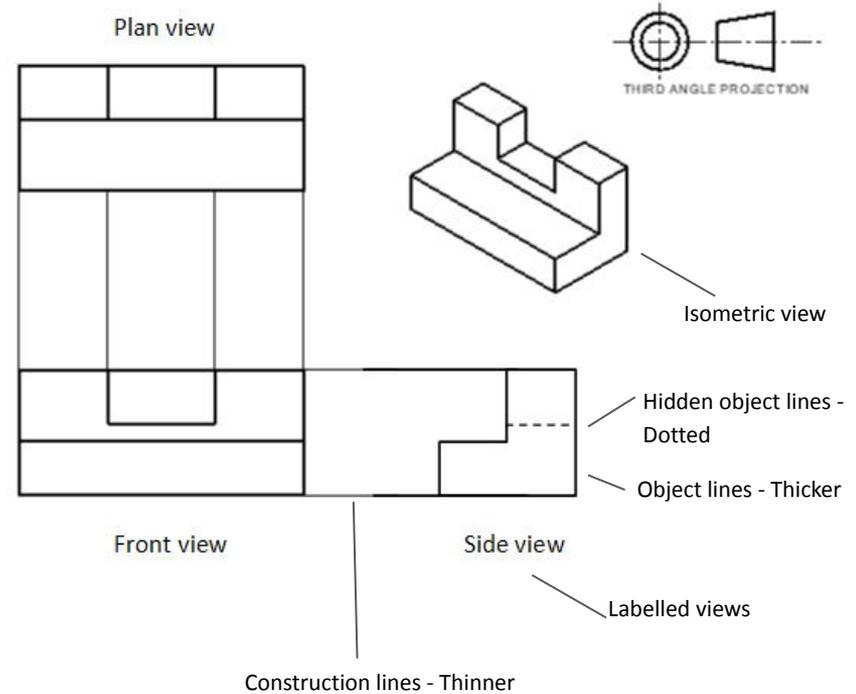


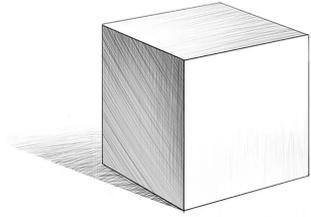
Types of drawing

<p>Sketching</p>	<p>A quick way to communicate ideas. no ruler. Always in pencil. Can be 2d or 3d.</p>	
<p>Isometric</p>	<p>3d drawing technique. Always in pencil and with a ruler. Lines at 30 degrees.</p>	
<p>Orthographic projection</p>	<p>Specialist Engineering drawing showing an object from the plan, front and side views.</p>	
<p>Exploded diagram</p>	<p>A technical drawing that shows the individual parts or the assembly order of an object.</p>	

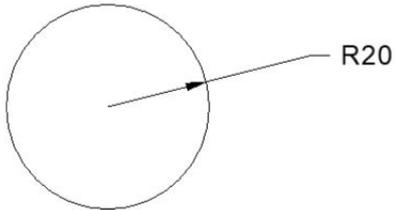
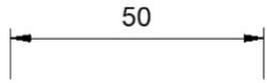
Orthographic projection example



Rendering / shading a sketch

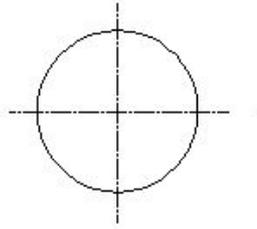


Adding dimensions to an object

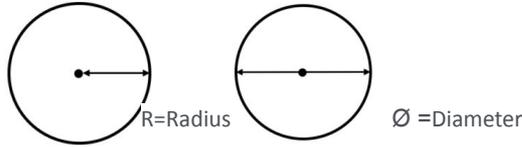


Centre lines

Center lines in an engineering drawing **show the center of a round or cylindrical shape.**

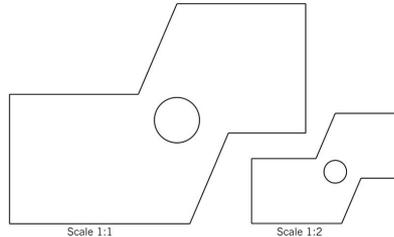


Symbols



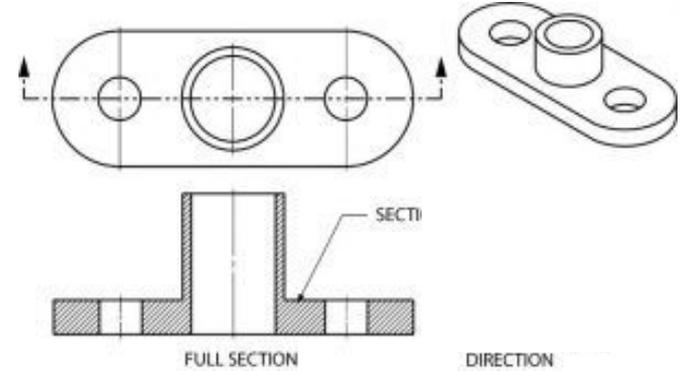
Scale

A scale drawing is an enlargement or reduction of an object. The scale of a drawing is usually stated as a ratio. 1cm:5m



Section views

A sectional view or a section looks inside an object. By taking an imaginary cut through the object and removing a portion, the inside features may be seen more clearly.



CAD - Computer-aided design

CAD Advantages	CAD Disadvantages
Highly accurate	High software costs
Easy to edit	Needs training
Can send files electronically	Need a reliable computer