

Wall Display

Computer-aided design and draughting is useful for visualising ideas, communicating technical information and assisting in manufacturing items accurately and quickly.

Information

A wall display maker produces a wide range of promotional products and wants to ensure that they are using cutting-edge graphic technologies in making their new products a success.

They want to produce a wall signage product where the display can be easily changed but still has visual impact.

They have asked you to demonstrate just what can be achieved with new technology and how it can help them manufacture items and promote their products. You have also been asked to explain your techniques and how you created your work.

You are tasked with:

- ◆ Producing a range of CAD designs, drawings, and models using your CAD software to demonstrate the ability of graphic communication technology.

They have asked you to produce drawings and views which can be demonstrated using CAD and require:

- ◆ a realistically rendered 3D CAD model
- ◆ an isometric view generated from your 3D model

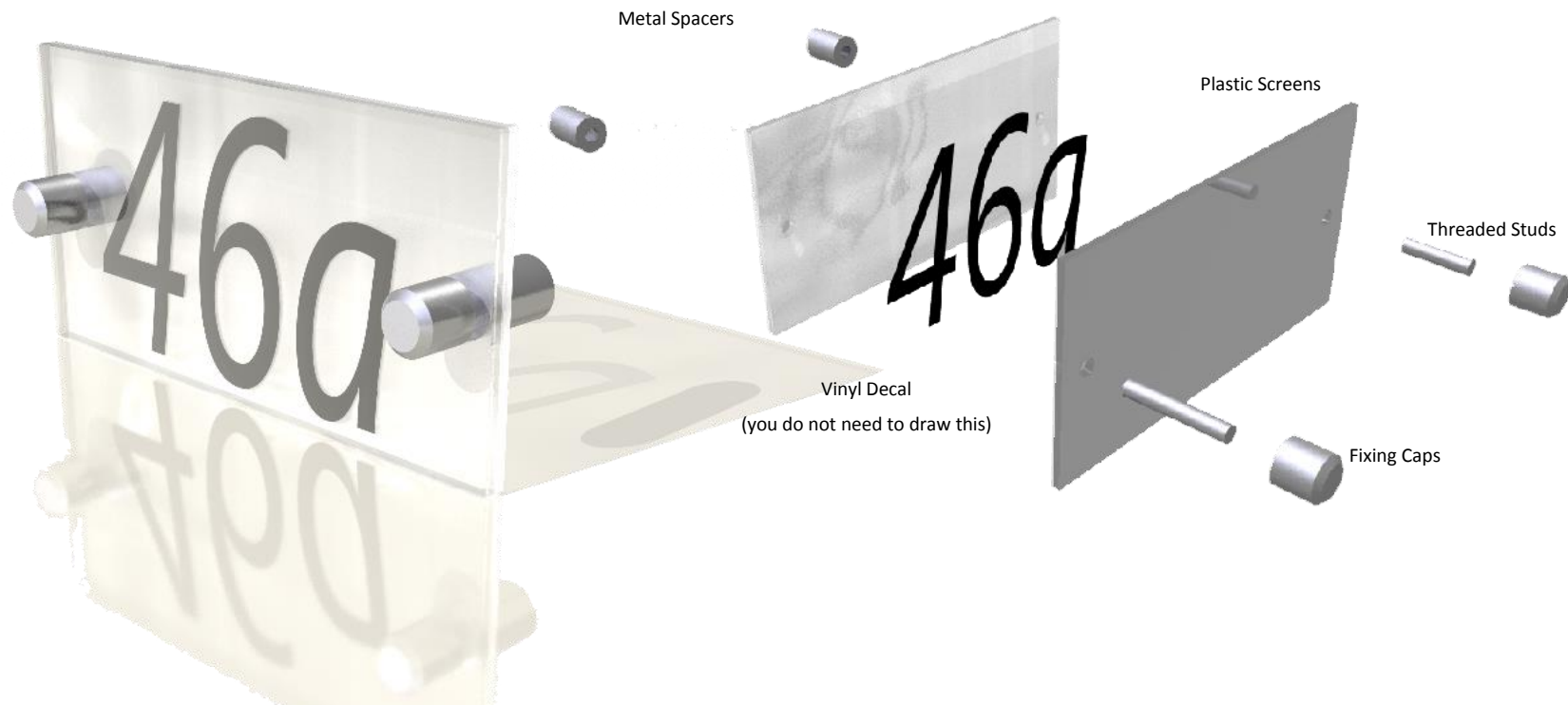
This will require you to:

- ◆ Describe how you used CAD to model two component parts of the display. Explain the use of two particular commands.
- ◆ Plan and produce a single-page desktop published information graphic for the buyer, which describes how the display is assembled. You should make use of your 3D CAD model.
- ◆ Answer questions from your assessor on how you created your CAD model and views and your use of desktop publishing principles and elements.
- ◆ Describe to your assessor how you created and assembled your 3D model.
- ◆ Identify and describe your isometric view and why it is useful in visualising the product.

Additional advice and product information

- ◆ Your 3D CAD model should communicate shape, colour, materials, shadows or reflections.
- ◆ The rear of the display is opaque plastic and the front is clear plastic.
- ◆ The spacers, studs and caps are made of aluminium.
- ◆ Your orthographic views must use third angle projection and be generated from your 3D model. They must show at least four relevant main dimensions.
- ◆ Your isometric view should be generated from your 3D model.

Graphic information and dimensions are provided for you.



Part	Length	Breadth	Thickness	Quantity	Notes
Metal Spacers	20	Ø15		2	Through-hole to allow fixing to a wall.
Plastic Screens	140	80	5	2	You may choose the position of the holes for the threaded stud.
Threaded Studs	45	Ø6		2	Threaded studs to join all components (do not show thread).
Fixing Caps	20	Ø15		2	Blind hole for fixing cap is 10 mm deep. Note the chamfer.