

1

Extra resources:

- http://www.vcaa.vic.edu.au/documents/vce/visualcomm/technical_drawing_specifications.pdf
- <http://www.slideshare.net/nyioq/orthographic-projection>

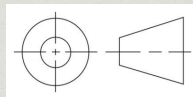
Why do we have orthogonal drawings?

- Technical drawings are based on a set of standards that have been globally agreed upon by the International Standards Organisation (ISO).
- Designers often use this process for the design and manufacture of products as it gives the manufacturer all the information they would need to make a product.

2

Why do you think this would be important?

Setting up your drawing



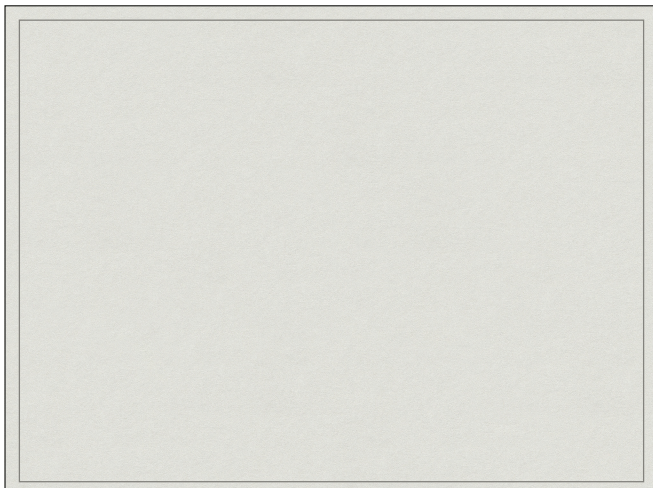
- Vertical or horizontal orientation
- 40mm up from the border, as well as out
- Use a light pencil so marks can be erased easily
- Universal Third-Angle Projection symbol
- All measurements are to be in mm
- Draw your **front view first**, then use your projection lines to draw the other views
- Front view is the side of the object that reveals the most detail
- As many views as necessary to accurately depict the object, in most cases there are only 3.

3

Rough sketch up of nearby object on the whiteboard.

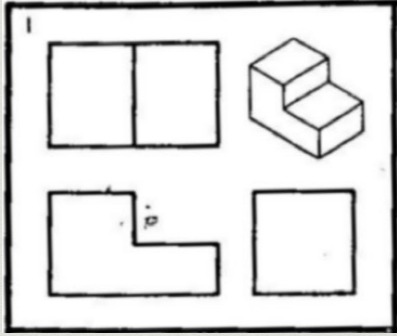
- What view would be the front view?
- How would I line up my top and side view?
- Centre lines?

4



5

Don't forget the hidden lines

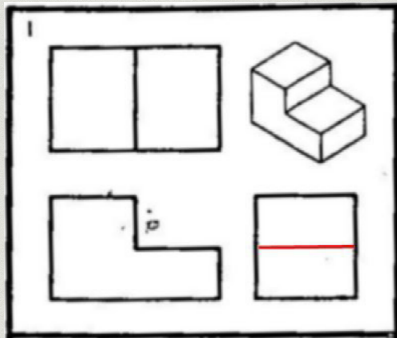


Any suggestions?

* Answer on next slide.

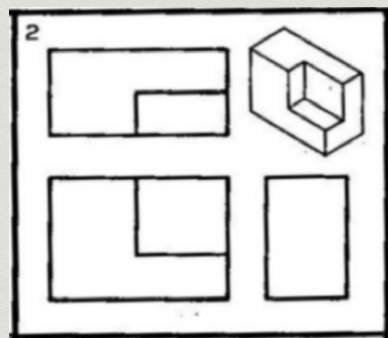
6

The Answer Is...



7

Don't forget the hidden lines

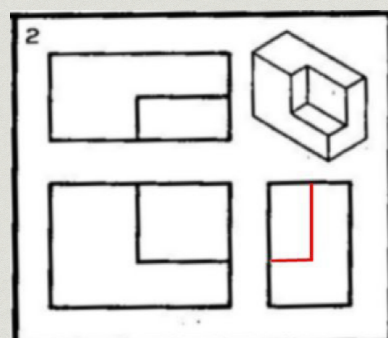


Ask for a volunteer to come up and try.

* Answer on next slide.

8

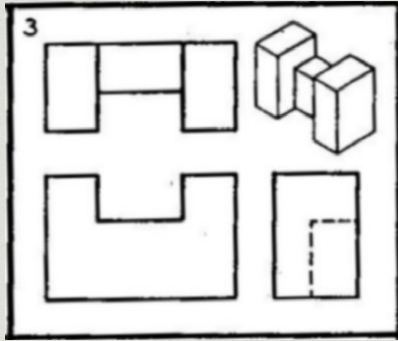
The Answer Is...



9

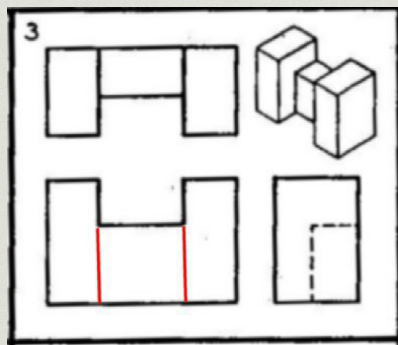
* Answer on next slide.

Don't forget the hidden lines



10

The Answer Is...



11

Any questions before we start?

Key points to remember

- Sketch it out first
- Front view first
- Vertical or horizontal orientation
- Don't forget your hidden lines
- Remember to leave space for your dimensions
- Scale if necessary

DUE. End of class next Monday

12

References

- https://jmcintyre.wikispaces.com/file/view/1.%20Isometric_Drawings_compressed.jpg/361137964/960x727/1.%20Isometric_Drawings_compressed.jpg
- <http://www.gr8lessons.com/files/Ortholso.pdf>