

# Exercise 2: Orthographic and Isometric Sketching

November 4, 2017

## 1 Introduction

This document contains two sketching sections, each with 20 figures. Using the grid and isometric grid paper provided, attempt to sketch views for as many figures as you can. Remember, the brain is a muscle: the more sketches you are able to complete, the more you are exercising it.

For each sketch you make, note the corresponding figure number so that it can be marked.

Concerning marking, I would like to collect all the sheets you have used at the end of the session. It doesn't matter if you've not finished, but please do as much as you can.

I also intend to end each lab session with some very brief informal feedback from everyone who attends individually. It's the first time we have run a course like this, so any feedback at all would be very useful to me to help improve the next session. I want all of you to get the best out of this course that you can!

## 2 Orthographic Sketching

The following section contains 20 isometric drawings. For each one, use the grid paper provided to sketch the top, front and right side views. Make sure that your views are properly aligned.

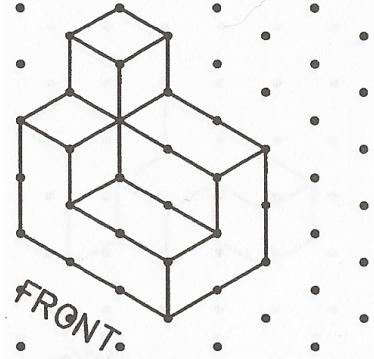


Figure 1: Draw the top, front and right side views

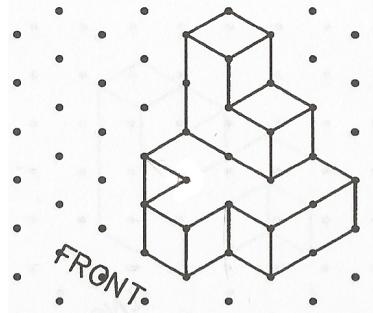


Figure 2: Draw the top, front and right side views

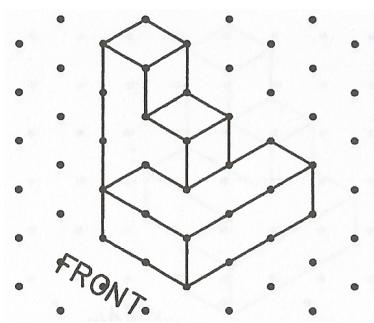


Figure 3: Draw the top, front and right side views

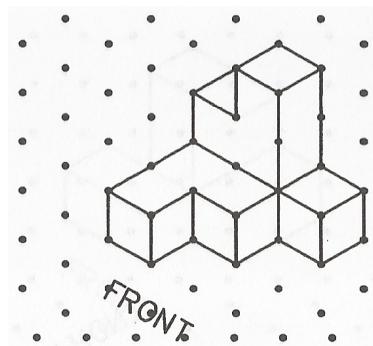


Figure 4: Draw the top, front and right side views

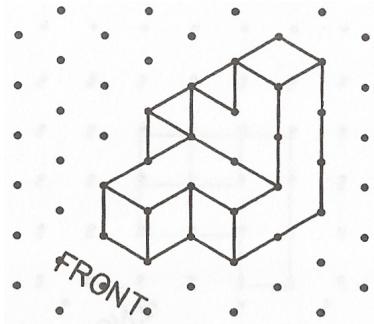


Figure 5: Draw the top, front and right side views

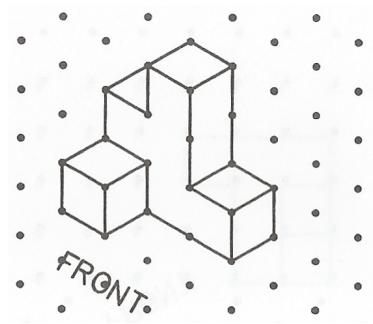


Figure 6: Draw the top, front and right side views

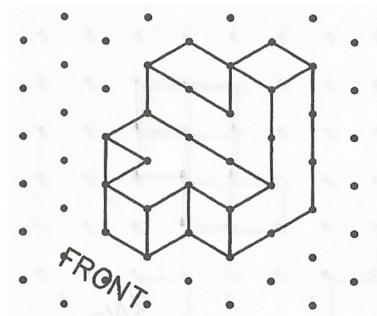


Figure 7: Draw the top, front and right side views

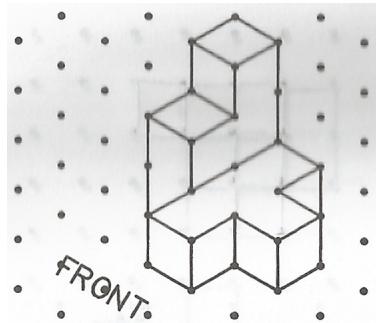


Figure 8: Draw the top, front and right side views

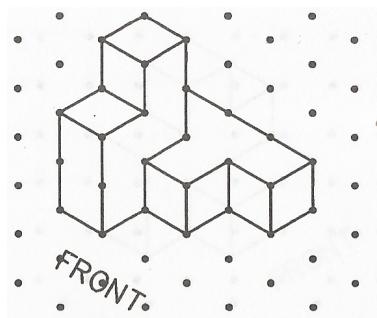


Figure 9: Draw the top, front and right side views

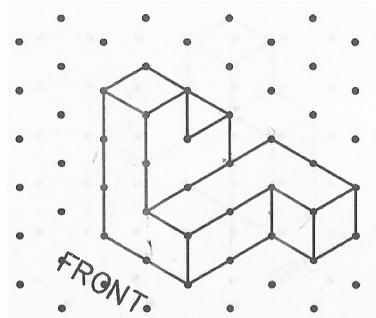


Figure 10: Draw the top, front and right side views

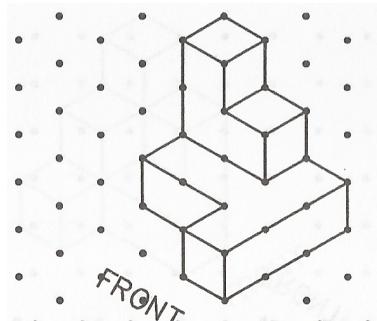


Figure 11: Draw the top, front and right side views

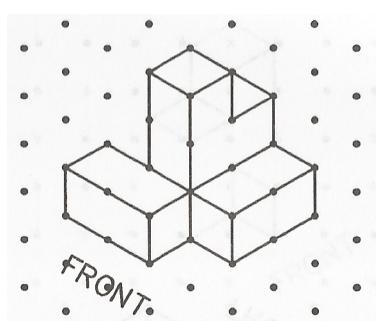


Figure 12: Draw the top, front and right side views

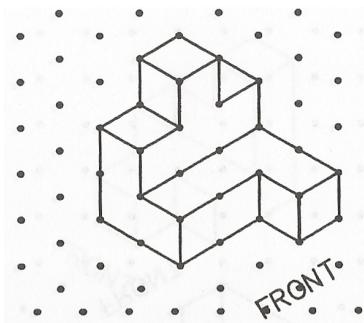


Figure 13: Draw the top, front and right side views

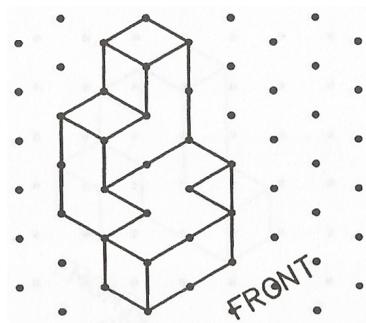


Figure 14: Draw the top, front and right side views

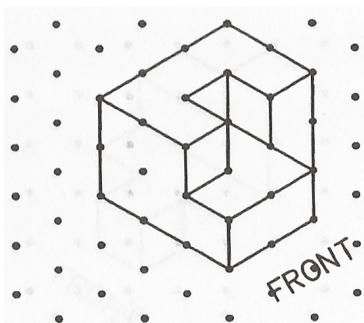


Figure 15: Draw the top, front and right side views

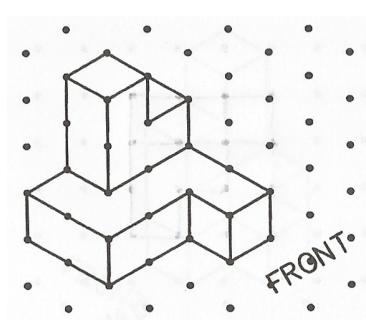


Figure 16: Draw the top, front and right side views

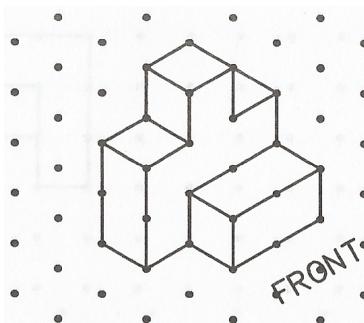


Figure 17: Draw the top, front and right side views

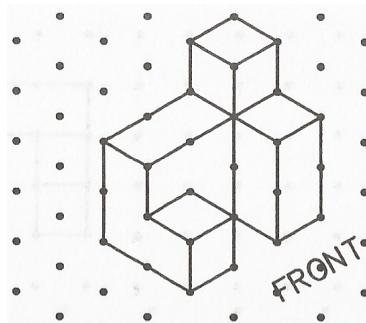


Figure 18: Draw the top, front and right side views

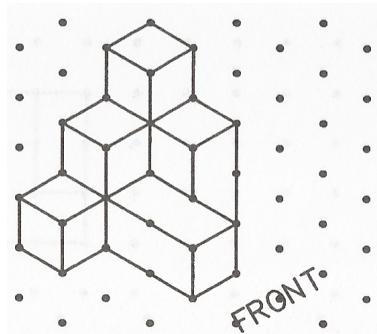


Figure 19: Draw the top, front and right side views

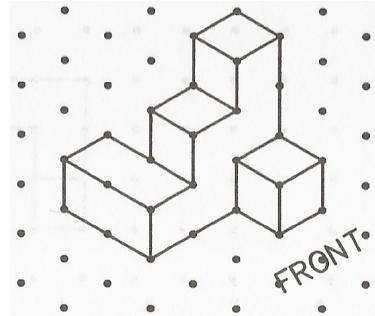


Figure 20: Draw the top, front and right side views

### 3 Isometric Sketching

This section contains 20 sets of orthographic projections. For each one, attempt to sketch the isometric view on the isometric grid paper provided. Use the box method if you need to.

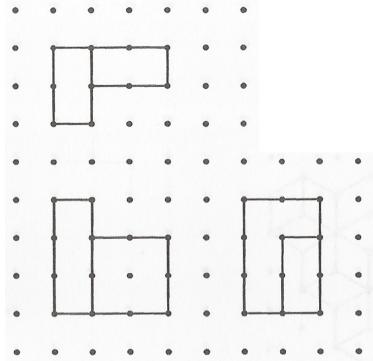


Figure 21: Construct an isometric view

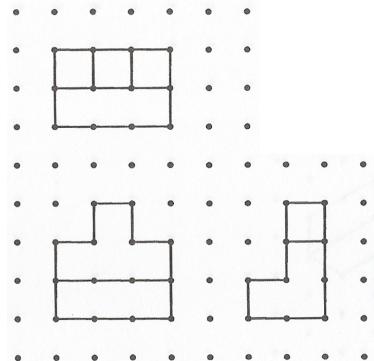


Figure 22: Construct an isometric view

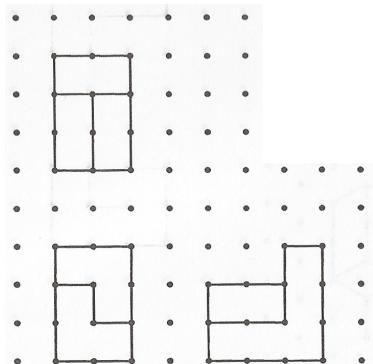


Figure 23: Construct an isometric view

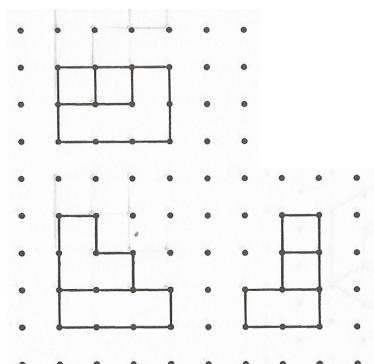


Figure 24: Construct an isometric view

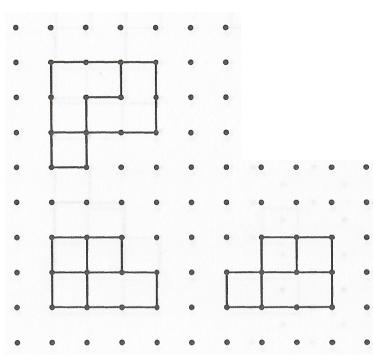


Figure 25: Construct an isometric view

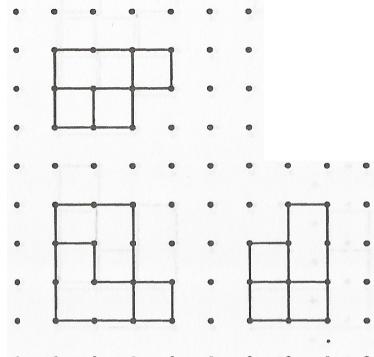


Figure 26: Construct an isometric view

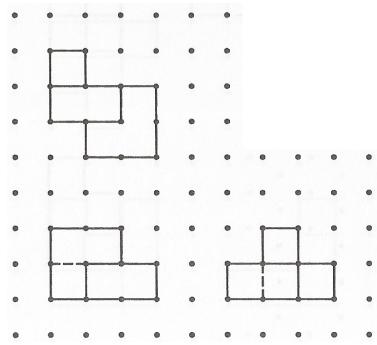


Figure 27: Construct an isometric view

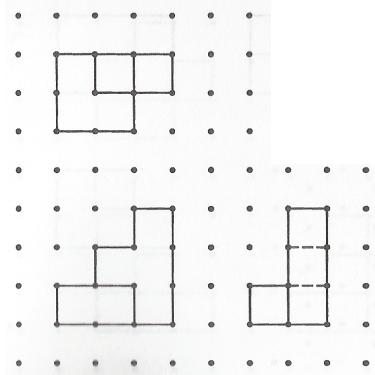


Figure 28: Construct an isometric view

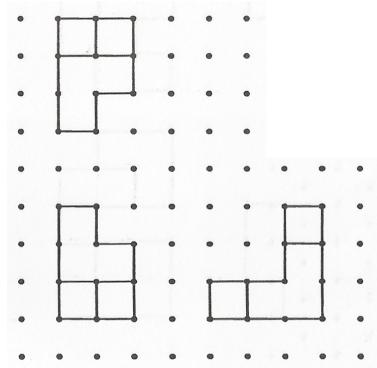


Figure 29: Construct an isometric view

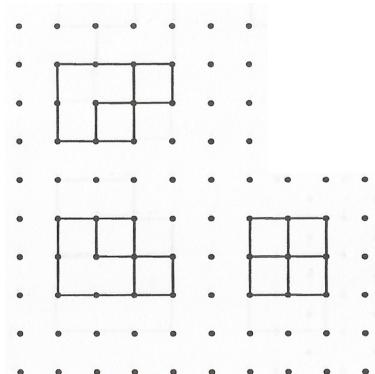


Figure 30: Construct an isometric view

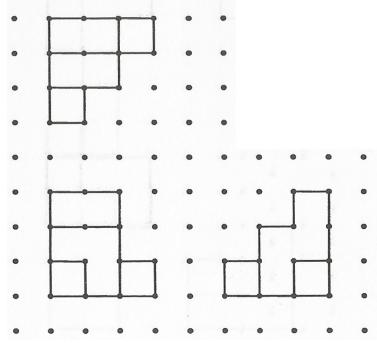


Figure 31: Construct an isometric view

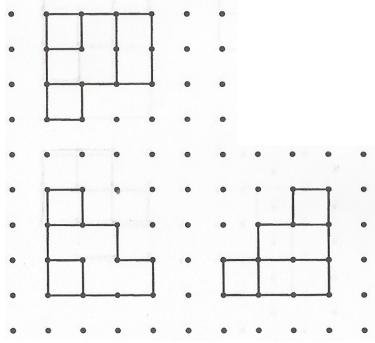


Figure 32: Construct an isometric view

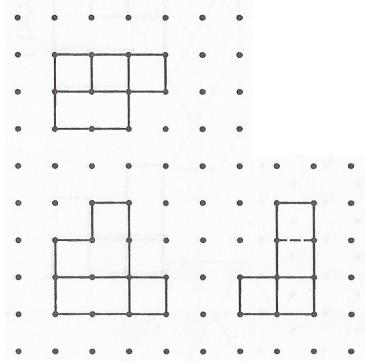


Figure 33: Construct an isometric view

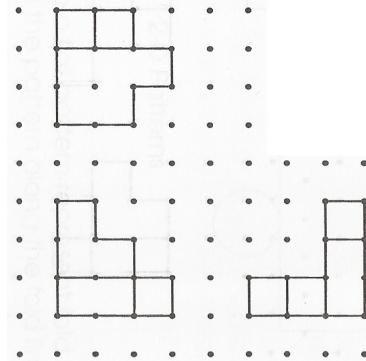


Figure 34: Construct an isometric view

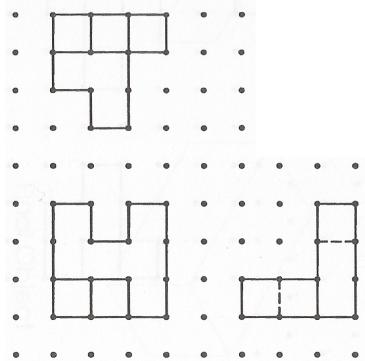


Figure 35: Construct an isometric view

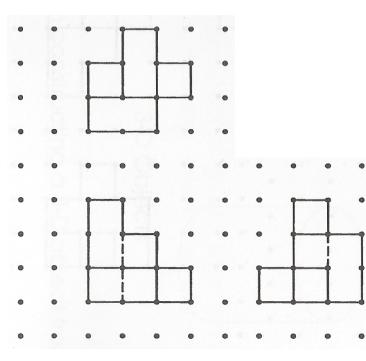


Figure 36: Construct an isometric view

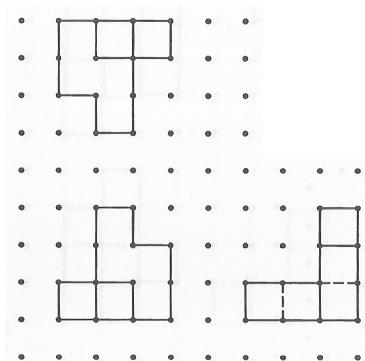


Figure 37: Construct an isometric view

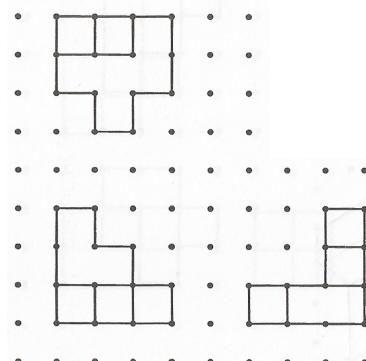


Figure 38: Construct an isometric view

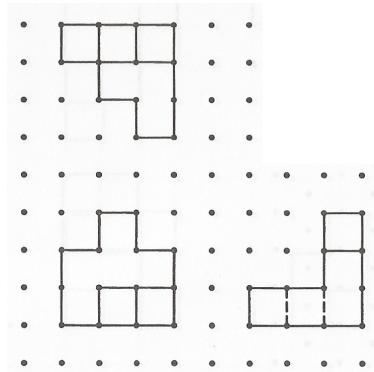


Figure 39: Construct an isometric view

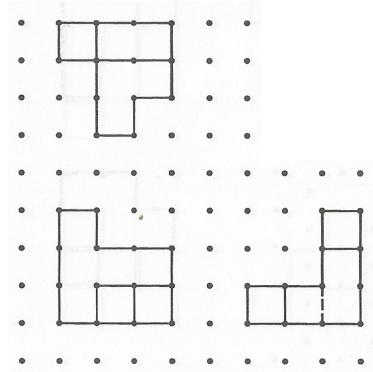


Figure 40: Construct an isometric view