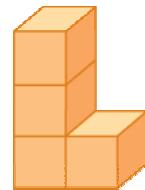


Lesson 10-6**Example 1**

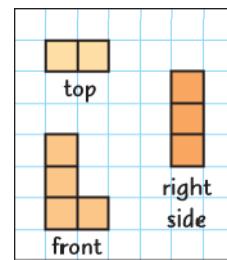
Make an orthogonal drawing of the figure.

**Solution**

Draw the front view first.

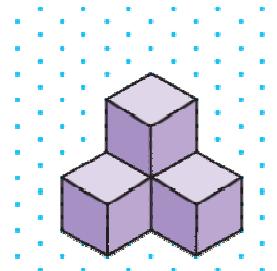
Draw the top view above it. Make sure it has the same width as the front view.

Draw the right-side view. Make sure it has the same height as the front view and the same depth as the top view.

**Example 2**

ART The isometric drawing shows the pedestal for an art exhibit.

- Make an orthogonal drawing of the pedestal showing the front, top, and right-side views.
- The length of one cube side is 1.5 ft. What is the surface area of the pedestal?

**Solution**

- Think of the pedestal as a combination of four cubes. Then make each view of the orthogonal drawing.
- There are 18 cube faces that comprise the surface area of the figure. Multiply this number by 2.25 to find the surface area in square feet.

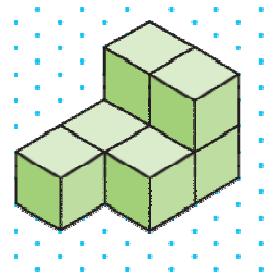
$$2.25 \cdot 18 = 40.5 \text{ ft}^2$$

Example 3

Create a foundation drawing for the isometric drawing. Assume the drawing is viewed from the lower left-hand corner.

Solution

First draw the orthogonal top view of the figure. Then determine how many cubes belong in each section, and write the number to complete the foundation drawing.



2	2
1	1
1	