Draw 3-D Figures

Lesson 7.5
**New York City** In art class, Rasheed studied buildings known for their unusual architecture. He studied the Flatiron Building shown. Three-dimensional figures, such as the Flatiron Building, have length, width, and height. They can be viewed from different perspectives, including the side view and the top view.

1. What is the two-dimensional figure that makes up the side view? **rectangle**

2. What is the two-dimensional figure that makes up the top view? **triangle**

3. Sketch the side view of the Flatiron Building.

4. Sketch the top view of the Flatiron Building.
You can draw different views of three-dimensional figures. The most common views drawn are the top, side, and front views.

The top, side, and front views of a three-dimensional figure can be used to draw a corner view of the figure.
1. Draw a top, a side, and a front view of the figure at the right.

   The top view is a triangle.
   The side and front view are rectangles.
2. Draw a top, a side, and a front view of the figure at the right.

The top view is a circle.

The side and front view are triangles.
3. Draw a top, a side, and a front view of the video console shown.

The top view is a rectangle.
The side and front views are also rectangles.
Draw a top, a side, and a front view of the figure at the right.
Got It? Do this problem to find out.

Draw a top, a side, and a front view of the figure.
Got It?

Do this problem to find out.

Draw a top, a side, and a front view of the figure.
Draw a top, a side, and a front view of the figure.
4. Draw a corner view of the three-dimensional figure whose top, side, and front views are shown.

**Step 1**  Use the top view to draw the base of the figure, a 1-by-3 rectangle.

**Step 2**  Add edges to make the base a solid figure.

**Step 3**  Use the side and front views to complete the figure.
5. Draw a corner view of the three-dimensional figure whose top view, side view, and front view are shown.

**Step 1** Use the top view to draw the base of the figure, a 2-by-4 rectangle.

**Step 2** Add edges to make the base a solid figure.

**Step 3** Use the side and front views to complete the figure.
Got It?  Do this problem to find out.

Draw a corner view of the three-dimensional figure whose top, side, and front views are shown.

Step 1  Use the top view to draw the base

Step 2  Add edges to make the base a solid figure.

Step 3  Use the side and front views to complete the figure.
Got It? Do this problem to find out.

Draw a corner view of the three-dimensional figure whose top, side, and front views are shown.

**Step 1** Use the top view to draw the base

**Step 2** Add edges to make the base a solid figure.

**Step 3** Use the side and front views to complete the figure.
Draw a corner view of the three-dimensional figure whose top, side, and front views are shown.

**Step 1** Use the top view to draw the base.

**Step 2** Add edges to make the base a solid figure.

**Step 3** Use the side and front views to complete the figure.
Draw a corner view of the three-dimensional figure whose top, side, and front views are shown.

**Step 1**  Use the top view to draw the base

**Step 2**  Add edges to make the base a solid figure.

**Step 3**  Use the side and front views to complete the figure.
Homework:

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