

Lesson 4-6**Example 1**

Draw a rectangular prism in one-point perspective.

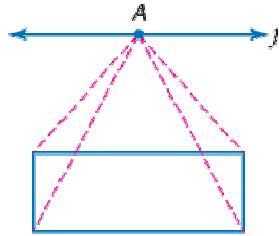
Solution

- Step 1* Draw a rectangle to show the front surface of the prism. Draw a horizon line j and a vanishing point A on line j .



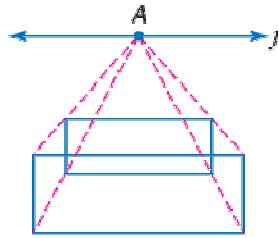
Step 1

- Step 2* Lightly draw line segments connecting the vertices of the rectangle to point A .



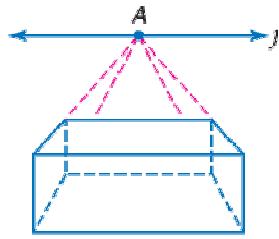
Step 2

- Step 3* Draw a smaller rectangle whose vertices touch the four line segments. Each side of the smaller rectangle is parallel to the corresponding side of the larger square.



Step 3

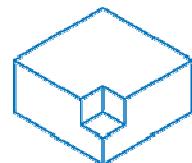
- Step 4* Connect the vertices of the two rectangles. Use dashed segments to indicate the edges of the rectangular prism that are hidden from view.



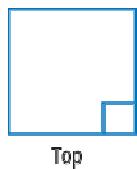
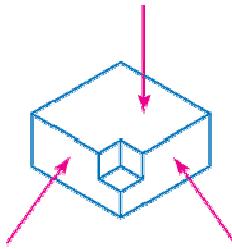
Step 4

Example 2

Make an orthogonal drawing of the figure.

**Solution**

Imagine looking at the object from the top, front, and side. Draw the object from each view.



Top



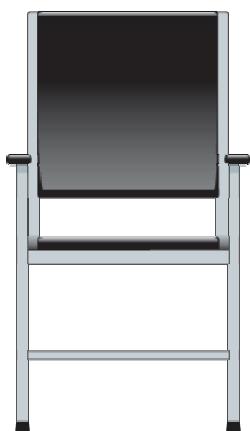
Front



Side

Example 3

RETAIL Pedro bought an office chair that requires assembly. The directions include this orthogonal drawing. How should the chair appear after he has completely assembled it?

**Solution**

Visualize how the chair will appear from each view in the orthogonal drawing.

