Drawing Three-Dimensional Figures

Three-dimensional figures can be viewed from different angles.
Look at the following building.

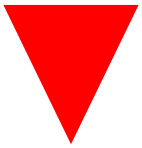
- Three-dimensional figures like this building have length, width, and height.
- They can be viewed from different perspectives(views) including a side, top, front and a corner view.

→What two-dimensional figure makes up the side view?___ rectangle ___

→What two-dimensional figure makes up the top view? ___ triangle _____

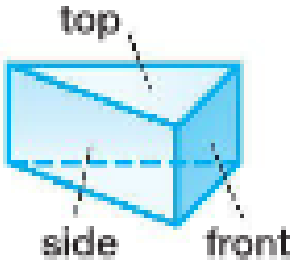
→What two-dimensional figure makes up the front view? _____

Draw the side view **Draw the top view** **Draw the front view** **Corner View**



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

Example 1:
Draw a top, a side, and a front view of the figure to the right:
Top view: Front view: Side view:

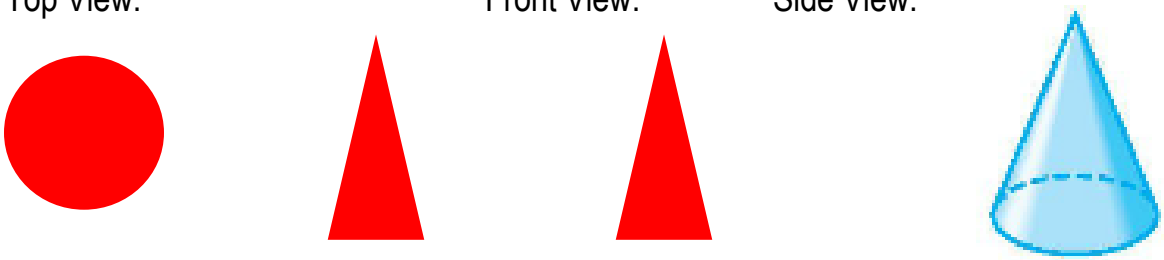


The top view is a triangle. The front and side view are rectangle

Example 2:

Draw a top, a side, and a front view of the figure to the right:

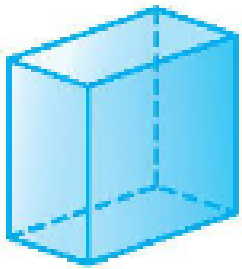
Top View: Front View: Side View:

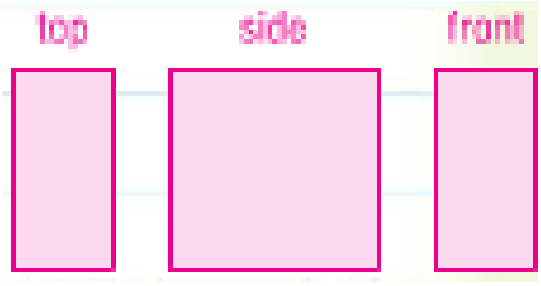


The top view is a circle. The front and side view are triangles.

YOUR TURN:

Draw a top, a side, and a front view of the following figure:

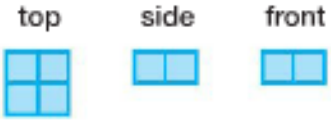




The top, side, and front views of a three-dimensional figure can be used to draw a corner view of the figure.

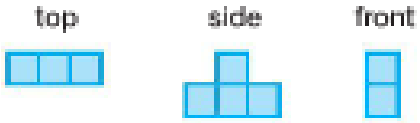
Example 3:
Sketch the three-dimensional figure made up of the following views:

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



Example 5:

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.

Identifying Three-Dimensional Figures

Name				
Number of Bases				
Polygon Base				
Figure