

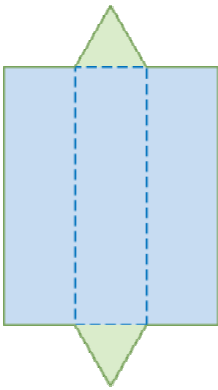
Lesson 4-4

Problem

MANUFACTURING The Sweet-Time Candy Company wants to package their candies in containers that can be constructed from two identical equilateral triangles and three identical rectangles. Both triangles will be green on both sides, and all three rectangles will be blue on both sides. Draw a net for such a container, showing the colors of the faces. Then sketch the container that can be constructed from the net and name this three-dimensional figure.

Solve the Problem

Experiment by drawing possible nets, cutting them out and folding them. You will find that in order for the net to fold correctly to form the container, the equilateral triangles must be at opposite ends of the middle rectangle. The net looks like this.



By actually cutting out, folding, and taping this net, or imagining doing this, you can see that the container will be a triangular prism. Because the bases are equilateral triangles, which are regular polygons, it is also a regular prism.

