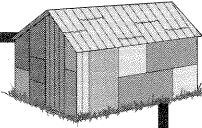


Additional Practice Problems for Activity 4



1. Draw a rectangular prism. Explain why you think your drawing is a rectangular prism.

2. Draw a prism that has six faces but is not a rectangular prism. Explain why your drawing is a six-faced prism but not a rectangular prism.

3. Using eight cubes, make a rectangular prism that has six congruent faces. Then answer these questions:
 - (a) Describe the shape of the prism you have made and why you think it is a rectangular prism.

 - (b) How many small squares make up the surface of each face of the prism?

 - (c) How many faces of the eight cubes make up the surface of the entire prism?

4. Using twenty seven cubes, make a rectangular prism that has six congruent faces. Then answer these questions:
 - (a) Describe the shape of the prism you have made and why you think it is a rectangular prism.

 - (b) How many small squares make up the surface of each face of the prism?

 - (c) How many faces of the twenty seven cubes make up the entire prism? For example, how many of the cubes have no faces on the surface? How many have one face on the surface? How many have two? How many have three? Do any cubes have more than three faces on the surface of the prism?

 - (d) Did your findings from part (c) surprise you? Why or why not?

