

LESSON **Geometry Lab Recording Sheet** p. 688

10-4 *Model Right and Oblique Cylinders*

Try This

Activity 1

Try This

1. On each cardboard model, use string or a rubber band to outline a cross section that is parallel to the base of the cylinder. What shape is each cross section?

2. Use string or a rubber band to outline a cross section of the cardboard model of the oblique cylinder that is perpendicular to the lateral surface. What shape is the cross section? _____

Activity 2

3. Untape the edge and unroll. What does the net for an oblique cylinder look like?

Try This

3. Cut off the curved part of the net you created in Activity 2 and translate it to the opposite side to form a rectangle. How do the side lengths of the rectangle relate to the dimensions of the cylinder?

Estimate the lateral area and surface area of the oblique cylinder.

