

Section 5.4 Math Link

This worksheet will help you with the Math Link on page 187.

Refer to the cylinder-shaped building that you sketched in the Math Link on page 175. Determine how much material you need to cover the exterior walls and the roof of the building.

1. **a)** If the curved wall of the cylinder is unrolled and flattened, what shape is it? _____
- b)** Using the dimensions labelled on the net, calculate the area of the curved wall. Show the dimensions and calculations you used to find the area.

2. **a)** What shape is the roof? _____
- b)** Using the dimensions labelled on the net, calculate the area of the roof. Show the dimensions and calculations you used to find the area.

3. What is the total area of the walls and roof of the building?

Show the dimensions and calculations you used to find the area.