

Section 5.3 Math Link

This worksheet will help you with the Math Link on page 181.

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

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

2. Is the back wall the same size and shape as the front wall? YES NO
If yes, use your answer for #1 to find the area of the back wall.

If no, calculate the area of the back wall. Show the dimensions and calculations you used to find the area.

3. **a)** What is the shape of one side wall? _____
b) Using the dimensions labelled on the net, calculate the area of the side wall. Show the dimensions and calculations you used to find the area.

4. Is the other side wall the same size and shape as the one in #3? YES NO
If yes, use your answer for #3 to find the area of the side wall.

If no, calculate the area of the side wall. Show the dimensions and calculations you used to find the area.

5. **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.

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

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