Unit 6 Lesson 16: Surface Area of Right Prisms

1 Multifaceted (Warm up)

Student Task Statement

Your teacher will show you a prism.

- 1. What are some things you could measure about the object?
- 2. What units would you use for these measurements?

2 So Many Faces

Student Task Statement

Here is a picture of your teacher's prism:



- 1. Do you agree with any of them? Explain your reasoning.
- 2. How big is the "1 large rectangle" Andre is talking about? Explain or show your reasoning. If you get stuck, consider drawing a net for the prism.
- 3. Will Noah's method always work for finding the surface area of any prism? Elena's method? Andre's method? Be prepared to explain your reasoning.
- 4. Which method do you prefer? Why?



3 Revisiting the Box of Chocolates

Images for Launch



Student Task Statement

The other day, you calculated the volume of this heart-shaped box of chocolates.



4 A Wheelbarrow of Concrete (Optional)

Images for Launch



Student Task Statement

A wheelbarrow is being used to carry wet concrete. Here are its dimensions.



- 1. What volume of concrete would it take to fill the tray?
- 2. After dumping the wet concrete, you notice that a thin film is left on the inside of the tray. What is the area of the concrete coating the tray? (Remember, there is no top.)