

Lesson 3 Problem-Solving Practice

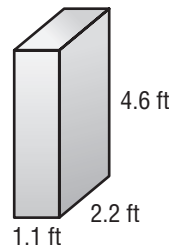
Surface Area of Rectangular Prisms

1. GIFTS Fatima is wrapping a gift box for her nephew's birthday. The box's dimensions are 16 inches long by 10 inches wide by 5 inches high. What is the surface area of the box?

2. FOOD Antoine is wrapping a block of cheese that is 22 centimeters long by 6 centimeters high by 10 centimeters wide with plastic wrap. What is the surface area of the cheese block?

3. PAINTING Cody is painting the front door of his house. The dimensions of the door are 80 inches by 36 inches by 2 inches. If he paints all of the surfaces, how much area will he paint? Explain.

4. CARPENTRY Bryan is sanding a set of speaker boxes that he built for his room. What is the surface area of each box?



5. CARPENTRY Jing is putting oak veneer (thin wood covering) on the entire surface of her hope chest. How much veneer will she need?

6. TOY MAKING Trey is covering blocks of wood with wallpaper to make building blocks for his little sister. If he covers all the surfaces, how much wallpaper will he need? Think of a short way to solve this problem and explain.

