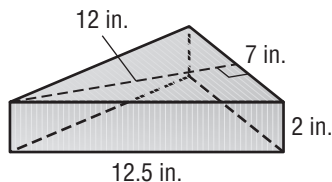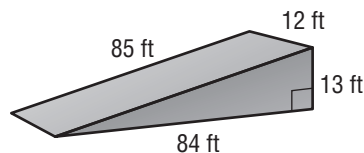# Lesson 4 Problem-Solving Practice
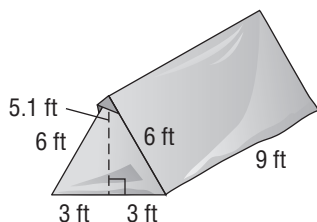
Surface Area of Triangular Prisms

1. **PIZZA** Find the amount of cardboard needed to make a box for a single slice of pizza. The box is in the shape of a triangular prism as shown.
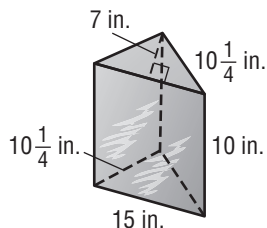
12 in.
7 in.
2 in.
12.5 in.

2. **RAMPS** Sturdy Steel Construction is building a steel ramp in the shape of a triangular prism. The dimensions are shown below. What is the surface area of the ramp?
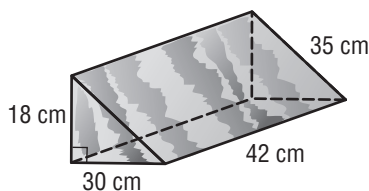
12 ft
85 ft
13 ft
84 ft

3. **CAMPING** The Canvas Camping Company makes canvas tents like the one shown. How much material is needed to make the tent?

5.1 ft
6 ft
6 ft
9 ft
3 ft   3 ft

4. **DISPLAY CASES** Find the surface area of Anna's glass doll display case. The case is in the shape of a triangular prism as shown.

7 in.
$10\frac{1}{4}$ in.
$10\frac{1}{4}$ in.
10 in.
15 in.

5. **GIFTS** Mariska purchased a gift box in the shape of a triangular prism. The dimensions are shown below. What is the surface area of the gift box?

35 cm
18 cm
42 cm
30 cm

6. **PACKAGING** Pascal's Peanut Company packages dry-roasted peanuts in a box in the shape of a triangular prism. The dimensions are shown below. What is the surface area of the box?

18.2 cm
7.8 cm
13 cm
13 cm
20.8 cm