

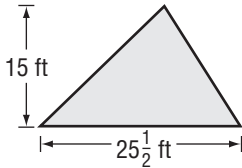
Lesson 2 Problem-Solving Practice

Area of Triangles

1. CARPETING Courtney wants to carpet part of her bedroom that is shaped like a right triangle with base 4.8 meters and height 5.2 meters. How much carpet will she need? **12.48 m²**

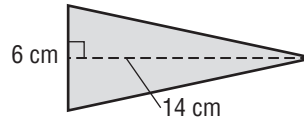
2. LAWN Mrs. Giuntini's lawn is triangle-shaped with a base of 25 feet and a height of 10 feet. What is the area of Mrs. Giuntini's lawn? Explain how you found your answer. **125 ft²; The area of a triangle is $\frac{bh}{2}$. So, $\frac{25 \times 10}{2} = 125$.**

3. BUILDING Norma has an A-frame cabin. The back is shown below. How many square feet of paint will she need to cover the back of the cabin?



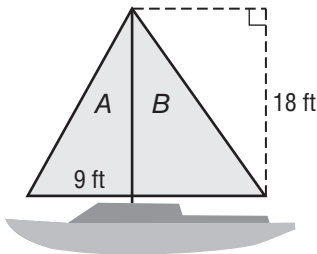
$191\frac{1}{4}$ ft²

4. SNACKS The dough that will be used to make a crescent roll is shown below. What is the area of the dough? Explain how you found your answer.



42 cm²; Sample answer: The shape of the dough is a triangle. It has a base of 6 cm and a height of 14 cm. The area is $\frac{6 \times 14}{2}$ or 42.

5. SAILING Ahmad just bought a used sailboat with two sails that need replacing. How much sail fabric will Ahmad need if he replaces sail A?



81 ft²

6. SAILING Use the picture from Exercise 5. The previous owner recalled that the area of sail B was 108 square feet. What is the length of the base of sail B? **12 ft²**