

Reflect

4. **Persevere in Problem Solving** What is the total area of one face of the pyramid? What is the total surface area of the faces of the pyramid, not counting the bottom? (Hint: the bottom of the pyramid is a square.)



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YOUR TURN

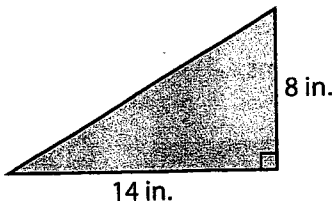
5. Amy needs to order a shade for a triangular-shaped window that has a base of 6 feet and a height of 4 feet. What is the area of the shade?

Guided Practice

HW # 52 1-13

Find the area of each triangle. (Explore Activities 1 and 2, Example 1)

1.



$$\begin{aligned} A &= \frac{1}{2}bh \\ &= \frac{1}{2}(\quad)(\quad) \\ &= \quad \text{in}^2 \end{aligned}$$

2. A pennant in the shape of a triangle has a base of 12 inches and a height of 30 inches. What is the area of the pennant? (Example 2)

$$\begin{aligned} A &= \frac{1}{2}bh \\ &= \frac{1}{2}(\quad)(\quad) \\ &= \quad \text{in}^2 \end{aligned}$$




ESSENTIAL QUESTION

3. How do you find the area of a triangle?

13.2 Independent Practice

CA CC 6.G.1

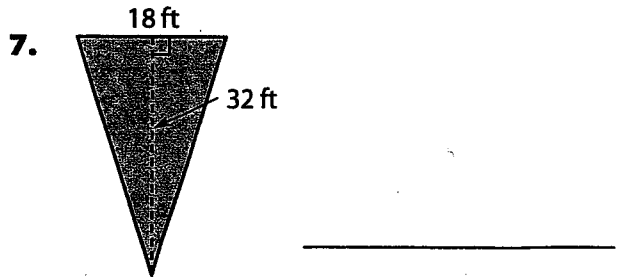
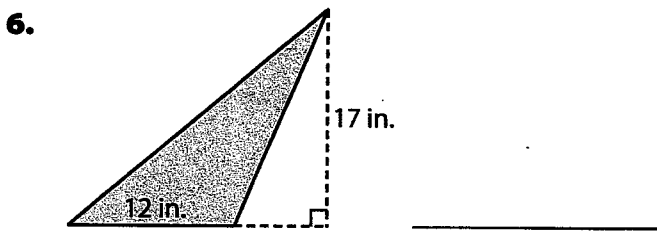
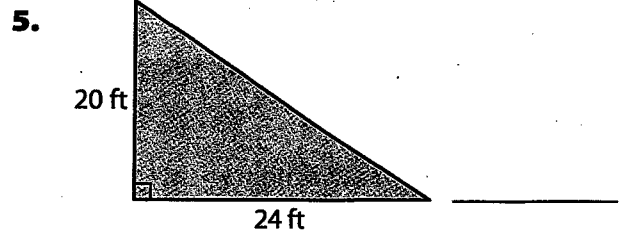
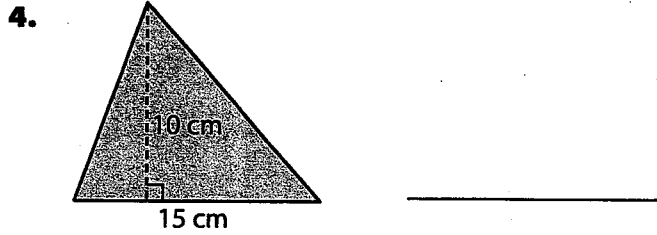


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Find the area of each triangle.

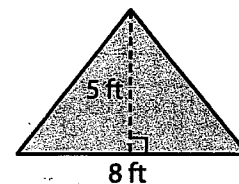
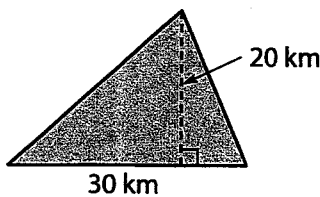


8. What is the area of a triangle that has a base of $15\frac{1}{4}$ in. and a height of 18 in.?

9. A right triangle has legs that are 11 in. and 13 in. long. What is the area of the triangle?

10. A triangular plot of land has the dimensions shown in the diagram. What is the area of the land?

11. The front part of a tent has the dimensions shown in the diagram. What is the area of this part of the tent?



12. **Multistep** The sixth-grade art students are making a mosaic using tiles in the shape of right triangles. The two sides that meet to form a right angle are 3 centimeters and 5 centimeters long. If there are 200 tiles in the mosaic, what is the area of the mosaic?

13. **Critique Reasoning** Monica has a triangular piece of fabric. The height of the triangle is 15 inches and the triangle's base is 6 inches. Monica says that the area of the fabric is 90 in^2 . What error did Monica make? Explain your answer.

