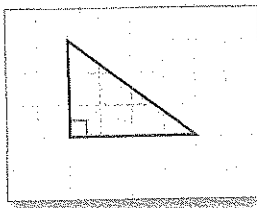


# Area of Triangles

## Guided Practice

Find the area of each triangle. (Examples 1 and 2)

1.

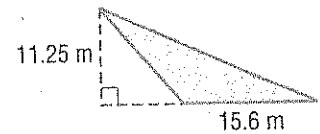


Show your work.

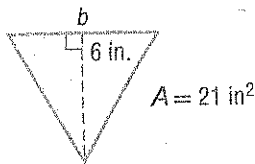
2.



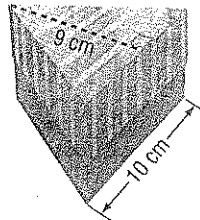
3.



4. Tayshan designs uniquely shaped ceramic floor tiles. What is the base of the tile shown? (Example 3)



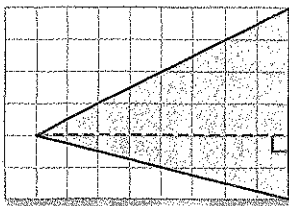
5. Consuela made a triangular paper box as shown. What is the area of the top of the box? (Example 4)



## Independent Practice

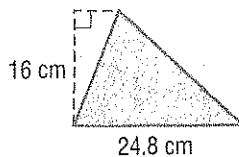
Find the area of each triangle. (Examples 1 and 2)

1.

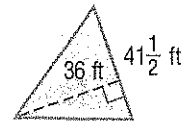


Show your work.

2.



3.



Find the missing dimension of each triangle described. (Example 3)

4. height: 14 in.  
area: 245 in<sup>2</sup>

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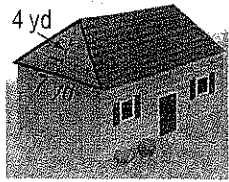
\_\_\_\_\_

5. base: 27 cm  
area: 256.5 cm<sup>2</sup>

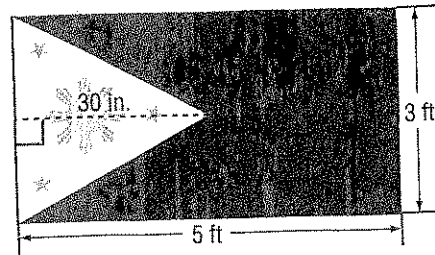
\_\_\_\_\_

\_\_\_\_\_

6. Ansley is going to help his father shingle the roof of their house. What is the area of the triangular portion of one end of the roof? (Example 4)



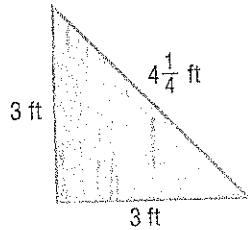
8. What is the area of the triangle on the flag of the Philippines in inches? \_\_\_\_\_



### Standardized Test Practice

12. A piece of metal is cut in the shape of the triangle below. What is the area of the piece of metal?

- (A)  $3\frac{1}{4}$  ft<sup>2</sup>
- (B)  $4\frac{1}{2}$  ft<sup>2</sup>
- (C)  $6\frac{3}{8}$  ft<sup>2</sup>
- (D) 9 ft<sup>2</sup>



Find the missing dimension of each triangle described.

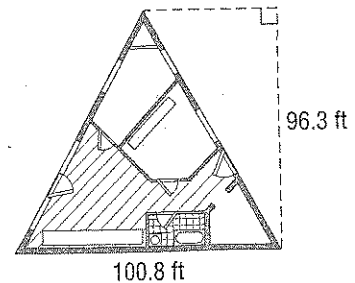
16. height: 7 in., area: 21 in<sup>2</sup>

17. base: 11 m, area: 115.5 m<sup>2</sup>

18. base: 14.2 yd, area: 63.9 yd<sup>2</sup>

19. height: 11 cm, area: 260.15 cm<sup>2</sup>

20. **STEM** An architect is designing a building on a triangular plot of land. If the base of the triangle is 100.8 feet and the height is 96.3 feet, find the available floor area of the building.



21. A flower bed in a parking lot is shaped like a triangle as shown.

- a. Find the area of the flower bed in square feet.

- b. If one bag of topsoil covers 10 square feet, how many bags are needed to cover this flower bed?

