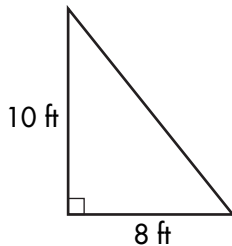


Area of Triangles

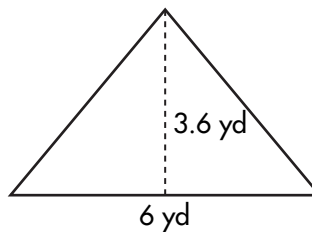
Find the area of each triangle.

1.



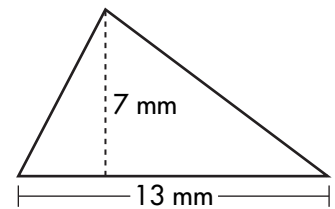
40 ft²

2.



10.8 yd²

3.



45.5 mm²

4. **Number Sense** What is the base measurement of a triangle with an area of 30 m^2 and a height of 10 m?

6 m

Algebra Find the missing measurement for each triangle.

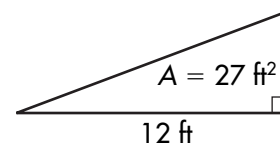
5. $A = 36 \text{ mi}^2$, $b =$ **6 mi**, $h = 12 \text{ mi}$

6. $A =$ **45 mm²**, $b = 12 \text{ mm}$, $h = 7.5 \text{ mm}$

7. List three sets of base and height measurements for triangles with areas of 30 square units.

Sample answer: $b = 4$, $h = 15$; $b = 6$, $h = 10$; $b = 8$, $h = 7.5$

8. Which is the height of the triangle?

A 4.5 ft**C** 8 ft**B** 6 ft**D** 9 ft

9. **Explain It** Can you find the base and height measurements for a triangle if you know that the area is 22 square units? Explain why or why not.

No; Sample answer: You need to know at least 2 of the measurements of the base, the height, and the area.