

## 4.2 Exercises



### Vocabulary and Concept Check

1. **CRITICAL THINKING** Can *any* side of a triangle be labeled as its base? Explain.

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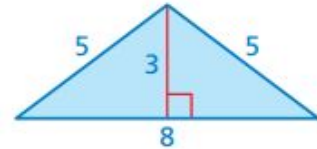
2. **DIFFERENT WORDS, SAME QUESTION** Which is different? Find “both” answers.

What is the area of the triangle?

What is the distance around the triangle?

How many unit squares fit in the triangle?

What is one-half the product of the base and the height?



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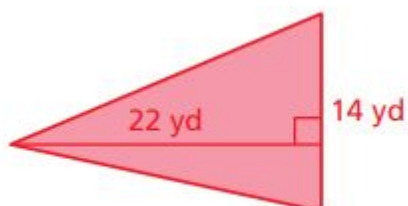
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## Practice and Problem Solving

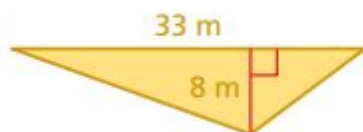
Find the area of the triangle.

6.



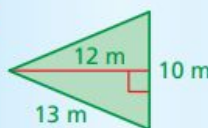
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8.



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9. **ERROR ANALYSIS** Describe and correct the error in finding the area of the triangle.



$$A = \frac{1}{2}(10)(13) \\ = 65 \text{ m}^2$$

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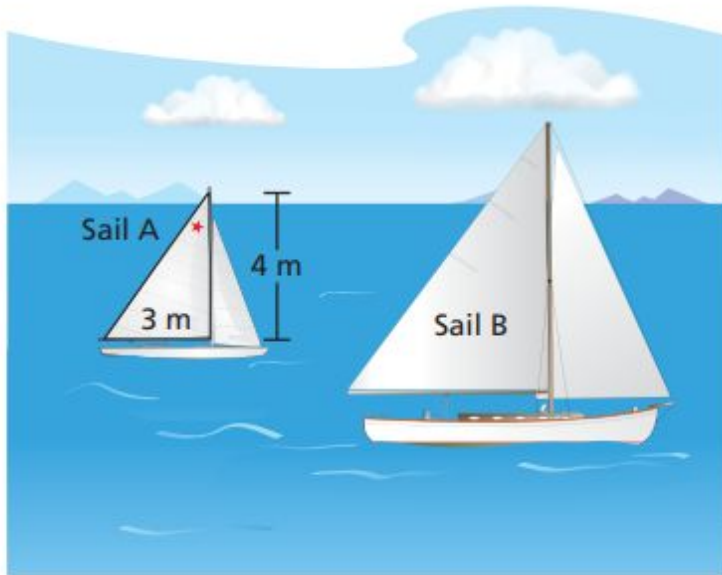
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Find the area of the triangle.

2 12.



17. **SAILBOATS** The base and the height of Sail B are  $x$  times greater than the base and the height of Sail A. How many times greater is the area of Sail B? Write your answer as a power.

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19. **REASONING** The base and the height of Triangle A are half the base and the height of Triangle B. How many times greater is the area of Triangle B?

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20. **Critical Thinking** The total area of the polygon is 176 square feet. Find the value of  $x$ .



### Fair Game Review what you learned in previous grades & lessons

Tell which property is illustrated by the statement. (Section 3.3)

21.  $n \cdot 1 = n$

22.  $4 \cdot m = m \cdot 4$

23.  $(x + 2) + 5 = x + (2 + 5)$

24. **MULTIPLE CHOICE** What is the first step when using order of operations?  
(Section 1.3)

- (A) Multiply or divide from left to right.  (B) Add or subtract from left to right.  (C) Perform operations in parentheses.  (D) Evaluate numbers with exponents.

21. \_\_\_\_\_

22. \_\_\_\_\_

23. \_\_\_\_\_



