Name _____ Date _____

If you turn this in on time: do the odds.
If you turn this in late or you are doing it over: do the evens.

Student score: How well do you feel you understand this learning target:
A
B
C
D
F

Teacher Score:

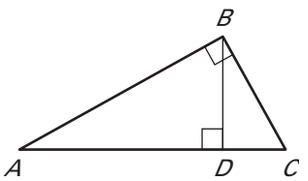
LESSON 7.3

Practice A

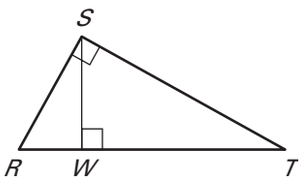
For use with pages 448–456

Identify the three similar right triangles in the given diagram.

1.



2.



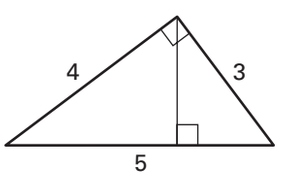
Use the above diagrams.

3. Draw and label the vertices of the three similar right triangles from Exercise 1 so that the corresponding sides and angles have the same orientation.

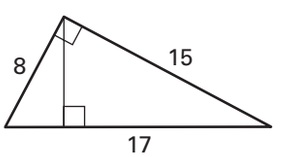
4. Draw and label the vertices of the three similar right triangles from Exercise 2 so that the corresponding sides and angles have the same orientation.

Find the length of the altitude to the hypotenuse. Round decimal answers to the nearest tenth.

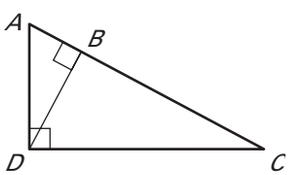
5.



6.



7. **Multiple Choice** Use the diagram at the right. Which proportion is true?



A. $\frac{AB}{AD} = \frac{AD}{DC}$ **B.** $\frac{AC}{AB} = \frac{AB}{DB}$ **C.** $\frac{AB}{DB} = \frac{DB}{BC}$

Name _____ Date _____

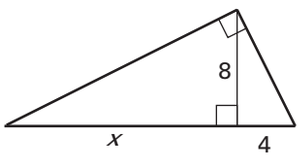
LESSON 7.3

Practice A *continued*

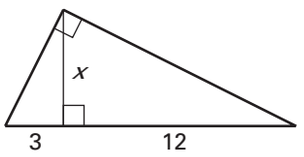
For use with pages 448–456

Complete and solve the proportion.

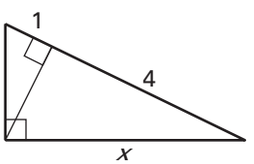
8. $\frac{x}{8} = \frac{?}{4}$



9. $\frac{12}{x} = \frac{x}{?}$

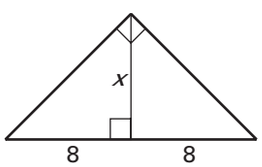


10. $\frac{5}{x} = \frac{x}{?}$

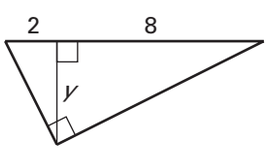


Find the value of the variable.

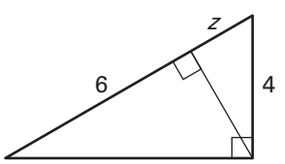
11.



12.

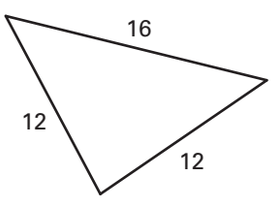


13.

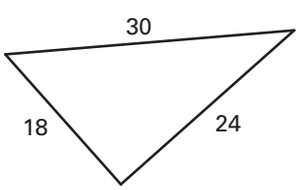


Tell whether the triangle is a right triangle. If so, find the length of the altitude to the hypotenuse. Round decimal answers to the nearest tenth.

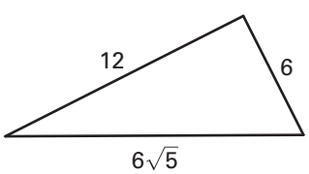
14.



15.



16.



17. Door Stop You are designing a door stop that you want to be 2 inches tall. Other information is given in the diagram. How long is the base length b in inches?