NAME _____ DATE _____

Practice A

For use with pages 535–541

Use the labeled triangles to state the Pythagorean Theorem.

1.

2.
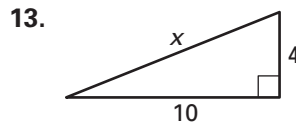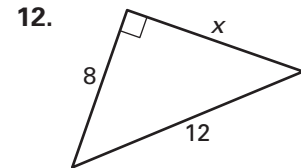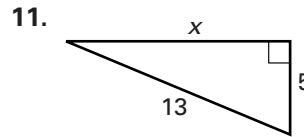

3.
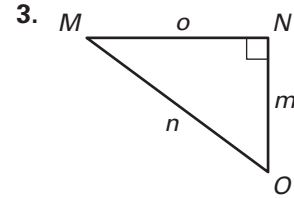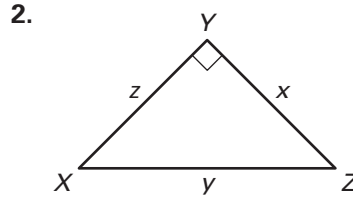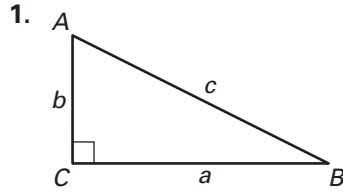
Simplify the radical.

4. $\sqrt{12}$

5. $\sqrt{48}$

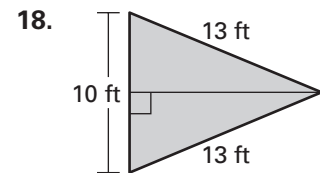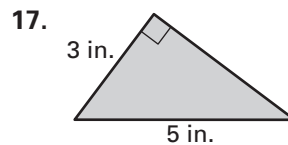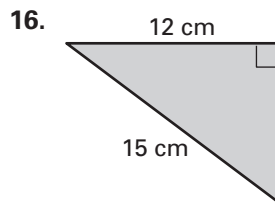**6.** $\sqrt{20}$

7. $\sqrt{18}$

8. $\sqrt{60}$

9. $\sqrt{75}$

**Find the unknown side length. Simplify answers that are radicals.
Tell whether the side lengths form a Pythagorean triple.**

10.

11.

12.

13.

14.

15.
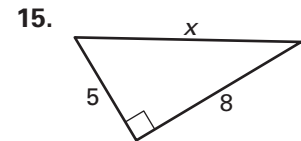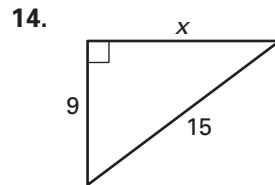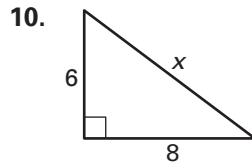
**Find the area of the figure. Round decimal answers to the
nearest tenth.**

16.

12 cm

15 cm

17.

3 in.

5 in.

18.

13 ft

10 ft

13 ft

Solve. Round your answer to the nearest tenth.

19. A 48-inch wide screen television means that the measure along the diagonal
is 48 inches. If the screen is a square, what are the dimensions of the length
and width?

20. The doorway of the family room measures $6\frac{1}{2}$ feet by 3 feet. What is the
length of the diagonal of the doorway?

21. You place a 10-foot ladder against a wall. If the base of the ladder is 3 feet
from the wall, how high up the wall does the top of the ladder reach?

Lesson 9.2