7.1 Practice
Simplify and show all work.

1. $\sqrt{45}$

2. $\sqrt{32}$

3. $\sqrt{72}$

4. $2\sqrt{50}$

5. $\sqrt{90}$

6. $3\sqrt{20}$

Multiplying Radicals- Simplify if possible.

7. $\sqrt{3} \cdot \sqrt{3}$

8. $\sqrt{4} \cdot \sqrt{7}$

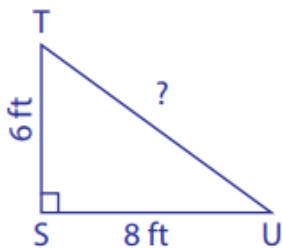9. $\sqrt{3} \cdot 2\sqrt{7}$

10. $2\sqrt{3} \cdot 2\sqrt{5}$

11. $2\sqrt{4} \cdot 5\sqrt{4}$

12. $3\sqrt{4} \cdot 2\sqrt{3}$

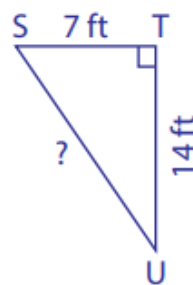**The Pythagorean Theorem-** Find the missing side. Simplify.
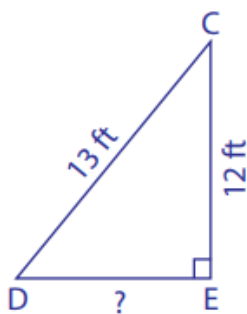
$$a^2 + b^2 = c^2$$

13.

T

6 ft
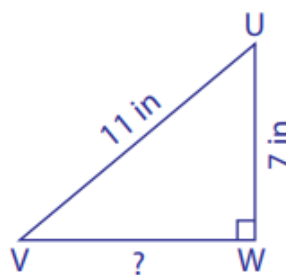
?

S   8 ft   U

TU= _____

14.

S   7 ft   T

?

14 ft

U

SU = _____

15.

C

13 ft

12 ft

D   ?   E

DE = _____

16.

U

11 in

7 in

V   ?   W

VW = _____

Can the following lengths be the sides of a right triangle? Show your work to explain your answer.

17.   3 in., 4, in, and 5 in.   18. 4 ft, 6 ft, and 10 ft