2. Write the radical symbol. $\sqrt{}$

5. $\sqrt{b+c}$ **4**

7. $\sqrt{ac}$ **15**

9. $-\sqrt{a-c}$ **-4**

In 14 and 15, the area of a square is given.
a. Give the exact length of a side of the square.
b. Give the length of a side rounded to the nearest hundredth.

14. 876 sq ft a. $\sqrt{876}$ ft b. 29.60 ft

15. 10 sq mi a. $\sqrt{10}$ mi b. 3.16 mi

18. $3\sqrt{49}$ **21**

20. $\sqrt{9} + \sqrt{16}$ **7**

21. $\sqrt{9+16}$ **5**

23. $(\sqrt{7})^2$ **7**

In 30 and 31, an equation is given.
a. Describe each solution using the radical symbol.
b. Write each solution as a decimal rounded to the nearest hundredth.

30. $x^2 = 144$
a. $x = \sqrt{144}$ or $-\sqrt{144}$ b. $x = 12$ or -12

31. $211 = h^2$
a. $h = \sqrt{211}$ or $-\sqrt{211}$ b. $h = 14.53$ or -14.53

32. If an object is dropped, it falls d feet in t seconds. Then $t = \sqrt{\frac{d}{16}}$.

If an object were dropped from the top of the Sears Tower, which is 1454 feet tall, how long would it take the object to hit the ground? Round your answer to the nearest tenth of a second. **9.5 seconds**

Properties Objective F: Use the Square of the Square Root Property.

33. According to the Square of the Square Root Property, if a is not negative, $\sqrt{a} \cdot \sqrt{a} =$ ***a***.

34. *Multiple choice.* Which of the following is equal to $\sqrt{x^2} \cdot \sqrt{x^2}$? ***b***

(a) x (b) x^2 (c) x^4