Name Key Date

LESSON 4.5 **Practice A**

For use with pages 266–271

Simplify the expression.

1. $\sqrt{18}$

$3\sqrt{2}$

2. $\sqrt{48}$

$4\sqrt{3}$

3. $\sqrt{20}$

$2\sqrt{5}$

4. $\sqrt{98}$

$7\sqrt{2}$

5. $\sqrt{9} \cdot 3\sqrt{27}$

$27\sqrt{3}$

6. $\sqrt{12} \cdot \sqrt{7}$

$2\sqrt{21}$

7. $\sqrt{\frac{25}{16}}$

$\frac{5}{4}$

8. $\sqrt{\frac{49}{9}}$

$\frac{7}{3}$

9. $\sqrt{\frac{100}{25}}$

2

10. $\sqrt{\frac{27}{1}}$

$3\sqrt{3}$

11. $\sqrt{\frac{45}{3}}$

$\sqrt{15}$

12. $\sqrt{\frac{4}{5}} \cdot \sqrt{\frac{3}{5}}$

$\frac{2\sqrt{3}}{5}$

Solve the equation.

16. $x^2 = 16$

± 4

17. $x^2 = 144$

± 12

18. $x^2 = 121$

± 11

19. $x^2 - 4 = 0$

± 2

20. $x^2 - 64 = 0$

± 8

21. $x^2 - 8 = 0$

$\pm 2\sqrt{2}$

22. $2x^2 = 32$

± 4

23. $3x^2 = 75$

± 5

24. $\frac{1}{3}x^2 = 12$

± 6

25. $x^2 + 12 = 13$

± 1

26. $x^2 - 1 = 6$

$\pm\sqrt{7}$

27. $20 - x^2 = -29$

± 7