Chapter 2 Section 6: Squares, Square Roots, and Absolute Value

Problems

Find each square.

1. $3^2 =$ _____

2. $9^2 =$ _____

3. $12^2 =$ _____

4. $31^2 =$ _____

5. $\left(\frac{3}{4}\right)^2 =$ _____

6. $\left(\frac{8}{9}\right)^2 =$ _____

7. $\left(\frac{4}{5}\right)^2 =$ _____

8. $-4^2 =$ _____

9. $\left(\frac{11}{12}\right)^2 =$ _____

10. $0.002^2 =$ _____

11. $14^2 =$ _____

12. $52^2 =$ _____

13. $-1.5^2 =$ _____

14. $3.1^2 =$ _____

15. $4.98^2 =$ _____

16. $0.5^2 =$ _____

17. $5.05^2 =$ _____

18. $0.004^2 =$ _____

19. $99.9^2 =$ _____

20. $(-7)^2 =$ _____

Find each square root.

21. $\sqrt{64} =$ _____

22. $\sqrt{324} =$ _____

23. $\sqrt{0.09} =$ _____

24. $\sqrt{\frac{49}{64}} =$ _____

25. $\sqrt{\frac{4}{9}} =$ _____

26. $\sqrt{10,000} =$ _____

27. $\sqrt{0.04} =$ _____

28. $\sqrt{0.01} =$ _____

29. $\sqrt{0.0036} =$ _____

30. $\sqrt{0.25} =$ _____

31. $-\sqrt{121} =$ _____

32. $-\sqrt{169} =$ _____

33. $\sqrt{\frac{16}{64}} =$ _____

34. $\sqrt{\frac{36}{81}} =$ _____

35. $\sqrt{0.0004} =$ _____

36. $\sqrt{0.16} =$ _____

37. To the nearest thousandth: $\sqrt{23} \cong$ _____

38. To the nearest hundredth: $\sqrt{32} \cong$ _____

39. $\sqrt{.49} =$ _____

40. To the nearest thousandth: $\sqrt{77} \cong$ _____

Between what two consecutive whole numbers is the square root of each given number?

41. $\sqrt{56}$ is between _____ and _____

42. $\sqrt{230}$ is between _____ and _____

43. $\sqrt{193}$ is between _____ and _____

44. $\sqrt{560}$ is between _____ and _____

45. $\sqrt{700}$ is between _____ and _____

46. $\sqrt{925}$ is between _____ and _____

Find the absolute value of each of the following.

47. $|-29| =$ _____

48. $|15| =$ _____

49. $|-13| =$ _____

50. $\left|-\frac{9}{17}\right| =$ _____