

Chapter 2

2.1 Graph the numbers on a number line. Then tell which number is greater.

1. 0 and -4 2. 2 and -2 3. -5 and -3 4. -6 and 4

2.1 Tell whether each number in the list is a whole number, an integer, or a rational number. Then order the numbers from least to greatest.

5. 0.25 , $-\frac{1}{8}$, $-\frac{1}{10}$, $-\frac{1}{5}$ 6. -2.5 , -3 , $\frac{5}{2}$, $-\frac{9}{4}$ 7. -4 , 3 , -5 , 0

2.2 Find the sum.

8. $-6 + 10$ 9. $-25 + (-36)$ 10. $-75 + 58$ 11. $8 + (-15) + 7$
12. $-2.8 + 4.3$ 13. $-8.2 + (-11.5)$ 14. $3\frac{2}{3} + (-5\frac{3}{8})$ 15. $-12\frac{3}{5} + 8\frac{1}{6}$

2.3 Find the difference.

16. $-17 - 20$ 17. $16 - (-50)$ 18. $-9 - (-12)$ 19. $\frac{4}{5} - \frac{1}{2}$
20. $-\frac{1}{2} - \frac{2}{3}$ 21. $-\frac{1}{3} - (-\frac{3}{4})$ 22. $-6.4 - 15$ 23. $-12.8 - (-5.6)$

2.3 Evaluate the expression when $x = 1.5$ and $y = -4$.

24. $y - x$ 25. $-y - (-x)$ 26. $x - (10 - y)$ 27. $-7 - (x - y)$

2.4 Find the product.

28. $-\frac{2}{3}(-36)$ 29. $64(-\frac{5}{8})$ 30. $-4.1(-3.5)$ 31. $(1.1)(-0.5)(-4)$

2.4 Identify the property illustrated.

32. $(-5)(8)(2) = (-5)(2)(8)$ 33. $6 \cdot (7 \cdot 2) = (6 \cdot 7) \cdot 2$ 34. $1(mn) = mn$
35. $0 \cdot (134) = 0$ 36. $y \cdot (-1) = (-1) \cdot y$ 37. $(-1)(-9) = 9$

2.5 Use the distributive property to write an equivalent expression.

38. $8(x + 4)$ 39. $5(6 - y)$ 40. $(m + 7)(-8)$ 41. $-3(k - 14)$
42. $\frac{3}{5}(-15r - 5)$ 43. $\frac{7}{12}(24s + 12)$ 44. $(9v - 18)\frac{1}{3}$ 45. $-\frac{5}{6}(-6w - 30)$

2.6 Find the quotient.

46. $-35 \div 7$ 47. $-92 \div (-4)$ 48. $36 \div (-\frac{3}{4})$ 49. $-56 \div (-\frac{7}{8})$
50. $\frac{5}{9} \div (-5)$ 51. $-\frac{5}{12} \div \frac{1}{2}$ 52. $-\frac{4}{3} \div \frac{4}{3}$ 53. $-\frac{5}{6} \div (-\frac{6}{5})$

2.7 Evaluate the expression.

54. $-\sqrt{36}$ 55. $\pm\sqrt{400}$ 56. $\sqrt{6400}$ 57. $\pm\sqrt{144}$

2.7 Approximate the square root to the nearest integer.

58. $\sqrt{135}$ 59. $-\sqrt{75}$ 60. $-\sqrt{160}$ 61. $\sqrt{250}$