


EXAMPLES 2 and 3on p. 65
for Exs. 14–22**CLASSIFYING AND ORDERING NUMBERS** 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.

14. 3, -5, -2.4, 1 15. 1.6, 1, -4, 0 16. 0.25, -0.5, 0.2, -2
17. $-\frac{2}{3}$, -0.6, -1, $\frac{1}{3}$ 18. -0.01, 0.1, 0, $-\frac{1}{10}$ 19. 16, -1.66, $\frac{5}{3}$, -1.6
20. -2.7, $\frac{1}{2}$, 0.3, -7 21. -4.99, 5, $\frac{16}{3}$, -5.1 22. $-\frac{3}{5}$, -0.4, -1, -0.5

EXAMPLES 4 and 5on p. 66
for Exs. 23–34**FINDING OPPOSITES AND ABSOLUTE VALUES** For the given value of a , find $-a$ and $|a|$.


23. $a = 6$ 24. $a = -3$ 25. $a = -18$ 26. $a = 0$
27. $a = 13.4$ 28. $a = 2.7$ 29. $a = -6.1$ 30. $a = -7.9$
31. $a = -1\frac{1}{9}$ 32. $a = -\frac{5}{6}$ 33. $a = \frac{3}{4}$ 34. $a = 1\frac{1}{3}$

EXAMPLE 6on p. 67
for Exs. 35–38**ANALYZING CONDITIONAL STATEMENTS** Identify the hypothesis and the conclusion of the conditional statement. Tell whether the statement is *true* or *false*. If it is false, give a counterexample.


35. If a number is a positive integer, then the number is a whole number.
36. If a number is negative, then its absolute value is negative.
37. If a number is positive, then its opposite is positive.
38. If a number is an integer, then the number is a rational number.
39.  **TAKS REASONING** Which number is a whole number?
 (A) $|\frac{-18}{9}|$ (B) $-\frac{4}{3}$ (C) 1.6 (D) $-(-7.963)$

ERROR ANALYSIS Describe and correct the error in the statement.


40.

The numbers $-(-2)$, -4 , $-|8|$, and -0.3 are negative numbers. 

41.

The numbers $|-3.4|$, $-(-8)$, $-|-0.2|$, and 0.87 are positive numbers. **EVALUATING EXPRESSIONS** Evaluate the expression when $x = -0.75$.

42. $-x$ 43. $|x| + 0.25$ 44. $|x| - 0.75$ 45. $1 + |-x|$
46. $2 \cdot (-x)$ 47. $(-x) \cdot 3$ 48. $|x| + |x|$ 49. $-x + |x|$

50.  **TAKS REASONING** Which number is a solution of $|x| + 1 = 1.3$?

- (A) -2.3 (B) -0.3 (C) 1.3 (D) 2.3

51. **CHALLENGE** What can you conclude about the opposite of the opposite of a number? *Explain* your reasoning.52. **CHALLENGE** For what values of a is the opposite of a greater than a ? less than a ? equal to a ?