



Vocabulary and Concept Check

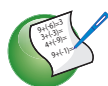
- WRITING** How do you find the additive inverse of an integer?
- NUMBER SENSE** Is $3 + (-4)$ the same as $-4 + 3$? Explain.

Tell whether the sum is *positive*, *negative*, or *zero* without adding. Explain your reasoning.

- $-8 + 20$
- $50 + (-50)$
- $-10 + (-18)$

Tell whether the statement is *true* or *false*. Explain your reasoning.

- The sum of two negative integers is always negative.
- An integer and its absolute value are always opposites.



Practice and Problem Solving

Add.

- $6 + 4$
- $-4 + (-6)$
- $-2 + (-3)$
- $-5 + 12$
- $5 + (-7)$
- $8 + (-8)$
- $9 + (-11)$
- $-3 + 13$
- $-4 + (-16)$
- $-3 + (-4)$
- $14 + (-5)$
- $0 + (-11)$
- $-10 + (-15)$
- $-13 + 9$
- $18 + (-18)$
- $-25 + (-9)$

ERROR ANALYSIS Describe and correct the error in finding the sum.

24.



$$9 + (-6) = -3$$

25.



$$-10 + (-10) = 0$$

- TEMPERATURE** The temperature is -3°F at 7 A.M. During the next four hours, the temperature increases 21°F . What is the temperature at 11 A.M.?
- BANKING** Your bank account has a balance of $-\$12$. You deposit $\$60$. What is your new balance?

Add.

- $13 + (-21) + 16$
- $22 + (-14) + (-35)$
- $-13 + 27 + (-18)$
- $-19 + 26 + 14$
- $-32 + (-17) + 42$
- $-41 + (-15) + (-29)$

Tell how the Commutative and Associative Properties of Addition can help you find the sum mentally. Then find the sum.

- $9 + 6 + (-6)$
- $-8 + 13 + (-13)$
- $9 + (-17) + (-9)$
- $7 + (-12) + (-7)$
- $-12 + 25 + (-15)$
- $6 + (-9) + 14$