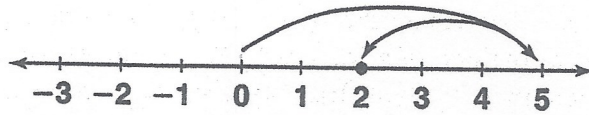


A number line can help you add integers. For positive integers, move to the right. For negative integers, move to the left.

Example Add $5 + (-3)$:

First, move 5 spaces to the right.
Then move 3 spaces to the left.



$$5 + (-3) = 2$$

- To add integers with the same sign, add absolute values and use the same sign.

$$3 + 5 = 8 \qquad -2 + -4 = -6$$

- To add integers with different signs, subtract absolute values and use the sign of the integer with the greater absolute value.

$$-7 + 3 = ?$$

$$|-7| - |3| = 7 - 3 = 4$$

Use the sign of -7 .

$$\text{So, } -7 + 3 = -4.$$

- To subtract an integer, add its opposite.

$$3 - (-2) = 3 + 2 \qquad \text{The opposite of } -2 \text{ is } 2.$$

$$= 5$$

$$3 - 4 = 3 + (-4) \qquad \text{The opposite of } 4 \text{ is } -4.$$

$$= -1$$

$$-4 - (-5) = -4 + 5 \qquad \text{The opposite of } -5 \text{ is } 5.$$

$$= 1$$

Simplify each expression.

- | | | |
|-------------------------|-------------------------|--------------------------|
| 1. $8 + (-4) =$ _____ | 2. $8 + 4 =$ _____ | 3. $-3 + (-3) =$ _____ |
| 4. $6 + (-2) =$ _____ | 5. $-7 + 11 =$ _____ | 6. $-4 + 16 =$ _____ |
| 7. $-9 + (-10) =$ _____ | 8. $23 + (-3) =$ _____ | 9. $9 - (-3) =$ _____ |
| 10. $18 - 14 =$ _____ | 11. $-3 - (-3) =$ _____ | 12. $-4 - 16 =$ _____ |
| 13. $-3 - 12 =$ _____ | 14. $6 - (-2) =$ _____ | 15. $-9 - (-10) =$ _____ |
| 16. $2 - (-3) =$ _____ | 17. $12 - 32 =$ _____ | 18. $42 - (-15) =$ _____ |

Solve.

19. You owe your teacher \$26 for the class trip. You give her a payment of \$11. How much do you still owe?
20. A golf ball is 6 inches under water. While trying to retrieve it, the golfer accidentally kicks it so that it descends another 9 inches. How far under the surface of the water is the golf ball?
