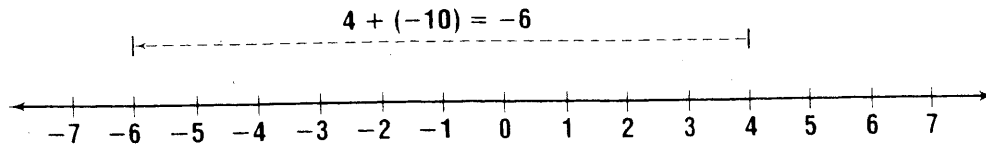


Adding Integers

You can use a number line to add integers. Locate the first addend on the number line. Move right if the second addend is positive. Move left if the second addend is negative.

Example 1 Solve $d = 4 + (-10)$.

Start at 4. Since -10 is negative, move left 10 units.



So, $d = -6$.

When you add integers, remember the following.

The sum of two positive integers is positive.

The sum of two negative integers is negative.

The sum of a positive integer and a negative integer is positive if the positive integer has the greater absolute value and negative if the negative integer has the greater absolute value.

Examples 2 Solve $t = 24 + (-13)$.

$|24| > |-13|$, so the sum is positive.

The difference of 24 and 13 is 11, so $t = 11$.

3 Solve $-17 + 16 = m$.

$|-17| > |16|$, so the sum is negative.

The difference of 17 and 16 is 1, so $m = -1$.

Solve each equation.

1. $h = 15 + (-10)$

2. $-20 + (-9) = g$

3. $s = -9 + 39$

4. $-50 + 20 = p$

5. $y = -11 + (-19)$

6. $z = 12 + 15$

7. $500 + (-250) = w$

8. $e = 48 + (-8)$

9. $-80 + (-20) = v$

10. $t = -109 + 49$

11. $544 + 206 = b$

12. $4 + (-16) = d$