

2-5**Study Guide and Intervention*****Subtracting Integers***

To subtract an integer, add its opposite.

Example 1 Find $6 - 9$.

$$\begin{aligned} 6 - 9 &= 6 + (-9) \\ &= -3 \end{aligned}$$

To subtract 9, add -9 .
Simplify.

Example 2 Find $-10 - (-12)$.

$$\begin{aligned} -10 - (-12) &= -10 + 12 \\ &= 2 \end{aligned}$$

To subtract -12 , add 12.
Simplify.

Example 3 Evaluate $a - b$ if $a = -3$ and $b = 7$.

$$\begin{aligned} a - b &= -3 - 7 \\ &= -3 + (-7) \\ &= -10 \end{aligned}$$

Replace a with -3 and b with 7.
To subtract 7, add -7 .
Simplify.

Exercises**Subtract.**

1. $7 - 9$ **-2**

2. $20 - (-6)$ **26**

3. $-10 - 4$ **-14**

4. $0 - 12$ **-12**

5. $-7 - 8$ **-15**

6. $13 - 18$ **-5**

7. $-20 - (-5)$ **-15**

8. $-8 - (-6)$ **-2**

9. $25 - (-14)$ **39**

10. $-75 - 50$ **-125**

11. $15 - 65$ **-50**

12. $19 - (-10)$ **29**

Evaluate each expression if $m = -2$, $n = 10$, and $p = 5$.

13. $m - 6$ **-8**

14. $9 - n$ **-1**

15. $p - (-8)$ **13**

16. $p - m$ **7**

17. $m - n$ **-12**

18. $-25 - p$ **-30**