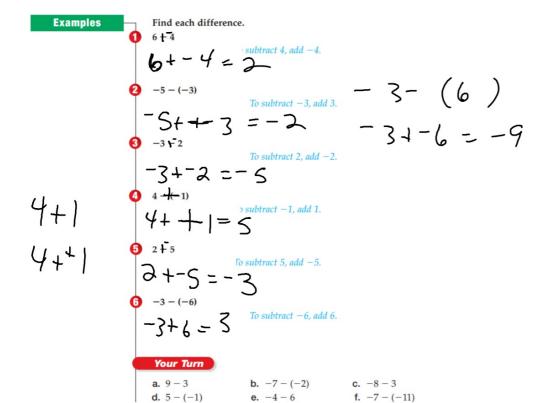
Alg 1A 2.4 Subtracting integers

Subtract integers
Use SMATO to add integers

integer smato difference



Examples

Figure 2. Evaluate x - y if x = -2 and y = 1.

-S--7

 $\begin{pmatrix} -2 \end{pmatrix} + \begin{pmatrix} -1 \end{pmatrix} = -3$ = -3 - +

 $ind\ c\ with\ -6.$

$$5++3=8$$

with 1. −1).

- (g) Evaluate m n if m = 5 and n = -3.
- **n.** Evaluate w x + y z if w = -5, x = -7, y = 10, and z = -5.

$$\frac{-5--7+10--5}{-5+7+10+5} = 17$$

The map shows the number of people who moved to Ohio from Indiana in a recent year. It also shows the number of people who left Ohio for Indiana. The change in Ohio's population p can be found by using the formula p = m - l, where m is the number of people moving to Ohio and l is the number of people leaving Ohio.



P = 9645+72,395

Find the net change in Ohio's population resulting from people moving to and from Indiana. = -2.750

Sample: 4 - (-3)

Solution:
$$4+3$$

3.
$$10 + 3$$

4.
$$-2 + (+5)$$

5.
$$-4 + 8$$

Find each difference. (Examples 1–6)

6.
$$8 + 2 = 6$$

$$8. -5 + 4 = -9$$

7.
$$-6 + (+4) = -3$$
 8. $-5 + -4 = -9$
10. $8 + 11 = -3$ 11. $-4 + (+9) = 5$

Evaluate each expression if a = -2, b = 6, c = -3, and d = -1.

(Examples 7 & 8)

12.
$$a - b$$

13.
$$b - c + d$$

14. Population In a recent year, 5899 people moved to Ohio from West Virginia, and 5394 people left Ohio for West Virginia. Find the net change in Ohio's population. (Example 9)