
I can subtract integers.

Subtraction is the same as adding the additive inverse (opposite).

Step 1: Change subtraction to addition.

Step 2: Change the second number to its opposite.

Step 3: Use adding integer rules to solve.

Rewrite each problem below as an equivalent addition problem.

1. $-5 - 8$ $-5 + (-8)$

2. $6 - (-5)$ $6 + 5$

3. $-2 - 8$ $-2 + (-8)$

4. $-3 - 9$ $-3 + (-9)$

5. $17 - 8$ $17 + (-8)$

6. $4 - (-12)$ $4 + 12$

Rewrite each problem below as an equivalent addition problem, then simplify.

7. $3 - (-8)$
 $3 + 8 = 11$

8. $-4 - (-16)$
 $-4 + 16 = 12$

9. $12 - (-9)$
 $12 + 9 = 21$

10. $7 - (-8)$
 $7 + 8 = 15$

11. $-12 - 8$
 $-12 + (-8) = -20$

12. $4 - 9$
 $4 + (-9) = -5$

13. $1 - (-10)$
 $1 + 10 = 11$

14. $-3 - (-8)$
 $-3 + 8 = 5$

15. $-20 - (-18)$
 $-20 + 18 = -2$

Word Problem:

Recorded temperatures at Amundsen-Scott Station in Antarctica have ranged from a low of -89°F to a high of -13°F . Find the difference.

$$\begin{aligned} -13 - (-89) &= \\ -13 + 89 &= 76^{\circ} \text{ difference} \end{aligned}$$

TEST PRACTICE

1. Which of the following are equivalent to $-2 + (-3)$? Select ALL that apply.

A. $-2 + 3$

B. $-2 - 3$

C. $3 - 2$

D. $3 - (-2)$

E. $-3 - 2$

F. $-3 - (-2)$

2. Which of the following are equivalent to $5 - (-21)$? Select ALL that apply.

A. $5 - 21$

B. $5 + 21$

C. $5 + (+21)$

D. $21 + (-5)$

E. $21 + 5$

F. $21 - 5$

3. Which of the following are equivalent expressions? Select ALL that apply.

A. $3 + 3$ and $|-3 + -3|$

B. $|8 - 7|$ and $|7 - 8|$

C. $6 - (-5)$ and $|6 - 5|$

D. $|-4 - (-1)|$ and $|4 - 1|$

E. $2 + -5$ and $2 - 5$

4. Which expressions are equivalent to $-30 - (-12)$? Select ALL that apply.

A. $-30 - 12$

B. $-30 + 12$

C. $-30 + (-12)$

D. $12 - 30$

E. $30 - (-12)$

F. $30 - 12$

G. $-12 - (-30)$

H. $-30 + (+12)$

I. $12 + (-30)$