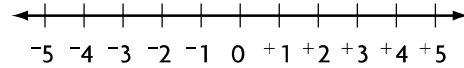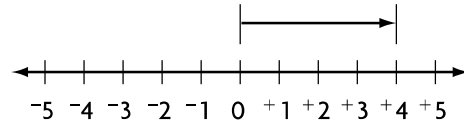# Algebra: Add Integers

You can use a number line to help you add integers.
Find the sum $^+4 + ^-8$.

- Draw a number line.
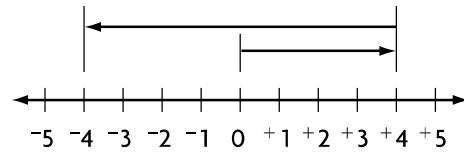
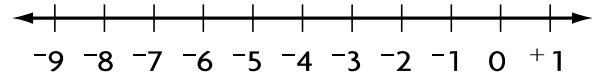- Start at 0. Move 4 spaces to the right to show $^+4$.

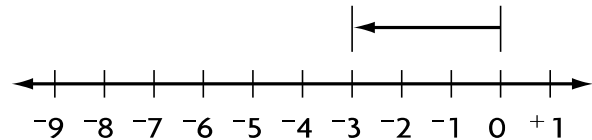- From $^+4$, move 8 spaces to the left to show $^-8$.

So, $^+4 + ^-8 = ^-4$.

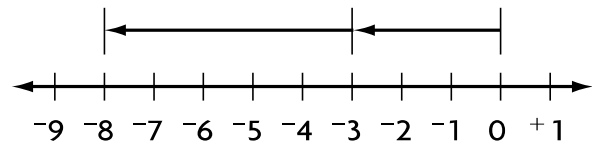Find the sum $^-3 + ^-5$.
- Draw a number line.

- Start at 0. Move 3 spaces to the left to show $^-3$.

- From $^-3$, move 5 spaces to the left to show $^-5$.

So, $^-3 + ^-5 = ^-8$.

Use a number line to find each sum.

1. $^+7 + ^-4 =$ _____
2. $^-8 + ^-2 =$ _____
3. $^+5 + ^-3 =$ _____

4. $^-6 + ^-3 =$ _____
5. $^+5 + ^-8 =$ _____
6. $^-4 + ^-9 =$ _____

7. $^+7 + ^-2 =$ _____
8. $^-3 + ^+5 =$ _____
9. $^-1 + ^-6 =$ _____

10. $^-2 + ^+6 =$ _____
11. $^+8 + ^-3 =$ _____
12. $^-2 + ^-5 =$ _____

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Algebra: Subtract Integers

In New York City, the 9:00 A.M. temperature reading was ⁻5°C. By noon, the temperature had dropped 3°C. What was the temperature reading at noon?
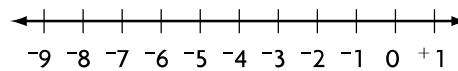
Find ⁻5 − ⁺3.

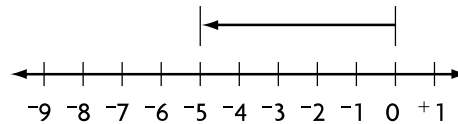You can find the difference of two integers by adding the opposite of the integer you are subtracting.
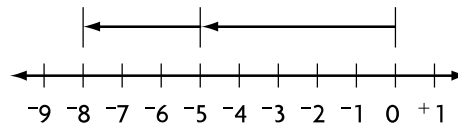
The opposite of ⁺3 is ⁻3.
⁻5 − ⁺3 becomes ⁻5 + ⁻3.

• Draw a number line.

⁻9 ⁻8 ⁻7 ⁻6 ⁻5 ⁻4 ⁻3 ⁻2 ⁻1 0 ⁺1

• Start at 0. Move 5 spaces to the left to show ⁻5.

⁻9 ⁻8 ⁻7 ⁻6 ⁻5 ⁻4 ⁻3 ⁻2 ⁻1 0 ⁺1

• From ⁻5, move 3 spaces to the left to add ⁻3.

So, at noon the temperature was ⁻8°C.

⁻9 ⁻8 ⁻7 ⁻6 ⁻5 ⁻4 ⁻3 ⁻2 ⁻1 0 ⁺1

Rewrite the subtraction problem as an addition problem.

1. ⁻4 − ⁻3   **2.** ⁺8 − ⁻8   **3.** ⁺5 − ⁺9   **4.** ⁻6 − ⁺4

_____   _____   _____   _____

Use a number line to find the difference.

5. ⁺6 − ⁺9 = _____   **6.** ⁻5 − ⁻4 = _____   **7.** ⁺7 − ⁻5 = _____

8. ⁻8 − ⁺6 = _____   **9.** ⁺6 − ⁺4 = _____   **10.** ⁻9 − ⁺5 = _____

11. ⁻3 − ⁻7 = _____   **12.** ⁺1 − ⁺8 = _____   **13.** ⁺2 − ⁻7 = _____

14. ⁻7 − ⁺5 = _____   **15.** ⁺9 − ⁺6 = _____   **16.** ⁻6 − ⁺4 = _____

17. ⁻4 − ⁻8 = _____   **18.** ⁺2 − ⁺9 = _____   **19.** ⁺4 − ⁻3 = _____