



In this lesson, you will practice adding and subtracting signed integers. To help with this, try thinking of positive numbers as “hot” cubes and cold numbers as “cold” cubes.

Adding and Subtracting Signed Integers

Let positive numbers represent hot cubes. Let negative numbers represent cold cubes.

Let addition indicate putting cubes in. Let subtraction indicate taking cubes out.

Putting in hot cubes will increase the temperature; putting in cold cubes will decrease it.

Taking out hot cubes will decrease the temperature; taking out cold cubes will increase it.

Example 1: $9 + (-2) = ?$

This question shows 9 hot cubes with two cold cubes being added to them. The two cold cubes will cancel out the effect of two hot cubes, leaving 7 hot cubes.

$$9 + -2 = +7$$

Example 2: $-5 - (-3) = ?$

This question shows 5 cold cubes with three cold cubes being taken from them. When three cold cubes are taken away, 2 cold cubes will be left.

$$-5 - (-3) = -2$$

1. $-5 + (-11) =$

2. $-14 + 13 =$

3. $-9 + 15 =$

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

5. $-5 + (-13) =$

6. $-18 + (-3) =$

7. $-2 + (+17) =$

8. $15 + (-9) =$

9. $-10 + 3 =$

10. $-11 + (-18) =$

11. $8 + (-15) + 13 =$

12. $-11 + 10 + (-7) + 9 =$

Scrambled answers for #1-12: -29, -21, -18, -16, -9, -7, -1, 1, 6, 6, 6, 15

$13. -14 + (-15) + 26 + 7 =$

$14. -35 + 15 + 25 + (-10) =$

$15. 98 + (-102) + 102 + (-98) =$

$16. 7 - 13 =$

$17. -8 - 5 =$

$18. -17 - 9 =$

$19. 9 - (-2) =$

$20. -18 - (-16) =$

$21. -24 - (-23) =$

$22. -5 - 3 =$

$23. -6 - (-8) =$

$24. 7 - 13 =$

$25. -11 - 9 =$

$26. -13 - (-18) =$

$27. -17 - (-2) =$

$28. -34 - (-19) =$

$29. -42 - 38 =$

$30. -18 - (-18) =$

Scrambled answers for #13-30: -80, -26, -20, -15, -15, -13, -8, -6, -6, -5, -2, -1, 0, 0, 2, 4, 5, 11