



Name _____ Date _____

Adding Integers (Pages 62–65)

You can model adding integers with counters or on a number line.

Adding Integers	<ul style="list-style-type: none"> To add integers with the <i>same</i> sign, add their absolute values. Give the result the same sign as the integers. To add integers with <i>different</i> signs, subtract their absolute values. Give the result the same sign as the integer with the greater absolute value.
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EXAMPLES

A Solve $-3 + (-7) = p$.

The integers have the same sign. They are both negative so their sum will be negative. Add the absolute values (3 and 7) and give the result a negative sign.
 $-10 = p$

B Solve $q = -7 + 3$.

The integers have different signs. $|-7|$ is 7; $|3|$ is 3. The integer with the greater absolute value is -7 , so the result will be negative. Subtract the absolute values: $7 - 3 = 4$.
 $q = -4$

Try These Together

1. Solve $5 + (-4) = a$.

HINT: Which integer has the greater absolute value?

2. Solve $18 + 26 = b$.

HINT: Are the signs of the integers the same?

PRACTICE

Solve each equation.

3. $c = -12 + 5$

4. $(-25) + (-3) = d$

5. $f = 15 + (-6)$

6. $g = 36 + (-29)$

7. $7 + (-30) = h$

8. $49 + 11 = j$

9. $k = (-14) + (-6)$

10. $17 + (-11) = m$

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

12. What is the value of $10 + (-20)$?

13. Find the sum $-75 + (-25)$.

Evaluate each expression if $a = -5$, $b = -2$, and $c = 8$.

14. $a + b$

15. $c + b$

16. $|a| + c$

17. Games Mark got to move 13 spaces forward on a game board. Then on his next turn, he had to move 8 spaces back. Write an addition equation involving integers to show how far on the game board Mark actually moved in these two turns.



18. Standardized Test Practice A store that sells wooden chairs bought 25 chairs from the manufacturer. The next day they sold 8 of the chairs. Which addition equation shows how to find how many chairs they had left?

A $c = 25 + 8$

B $c = (-25) + (-8)$

C $c = -25 + 8$

D $c = 25 + (-8)$

Answers: 1. 1 2. 44 3. -7 4. -28 5. 9 6. 7 7. -23 8. 60 9. -20 10. 6 11. -11 12. -10 13. -100 14. -7 15. 6 16. 13 17. $x = 13 + (-8)$ 18. D