Example 4: Golf
Refer to the beginning of the lesson. Find Tiger Woods' score for the fourth round.

Explore
You know that the scores for the first three rounds were -2, -6, and -7. You know that the final score was 11. You need to find his score for the fourth round.

Plan
Let $s$ represent the fourth round score. The final score is the sum of the scores for each round. You can write an equation for this problem.

$$(-2) + (-6) + (-7) + s = -18$$

Solve
$$(-2) + (-6) + (-7) + s = -18$$
$$(-15) + s = -18$$
$$-15 + 15 + s = -18 + 15$$
$$s = -3$$

Tiger's score for the fourth round was $-3$.

Examine
Check the solution by adding.
$$-2 + (-6) + (-7) + (-3) = -18$$

CHECK FOR UNDERSTANDING

Activity
Have students work with partners to model each example. Have them solve every equation by adding the proper quantity to make zero pairs on the side with the variable. Explain that this will work for any type of addition/subtraction equation.

Guided Practice
Solve each equation. Use models if necessary. Check your solutions.

4. $n + 6 = 11$ 5. $6 = r + 18$ 6. $x + 12 = 23$
7. $z - 5 = -3$ 8. $t - 8 = 4$ 9. $9 = b - 3$ 10. $n + 3 = -2$

11. Tourist Attractions
The Gateway Arch in St. Louis, Missouri, is 630 feet tall. It is 75 feet higher than the Washington Monument in Washington, D.C. Use the equation $t + 75 = 630$ to find the height of the Washington Monument. 555 feet

Error Analysis
Watch for students who reverse the positive or negative sign when attempting to simplify an expression. Prevent by emphasizing that a number added to one side of an equation must also be added to the other side (not subtracted).