## ANOTHER WAY

In Example 4, you can rewrite the expression $5(n+7)-4(3+n)$ as $5(n+7)+(-4)(3+n)$ and then distribute -4 to the terms in $3+n$.

Simplify the expression $5(n+7)-4(3+n)$.
(A) $6 n+23$
(B) $n+23$
(C) $6 n-5$
(D) $n-5$

$$
\begin{aligned}
5(n+7)-4(3+n) & =5 n+35-12-4 n & & \text { Distributive property } \\
& =n+23 & & \text { Combine like terms. }
\end{aligned}
$$

$\rightarrow$ The correct answer is B. (A) (B) (C)

Example 5 TAKS REASONING: Multi-Step Problem
EXERCISING Your daily workout plan involves a total of 50 minutes of running and swimming. You burn 15 calories per minute when running and 9 calories per minute when swimming. Let $r$ be the number of minutes that you run. Find the number of calories you burn if you run for 20 minutes.

## ANOTHER WAY

For an alternative method for solving the problem in Example 5, turn to page 102 for the Problem Solving Workshop.

## Solution

The workout lasts 50 minutes, and your running time is $r$ minutes. So, your swimming time is $(50-r)$ minutes.
STEP 1 Write a verbal model. Then write an equation.



STEP 2 Find the value of $C$ when $r=20$.

$$
\begin{aligned}
C & =6 r+450 & & \text { Write equation. } \\
& =6(20)+450=570 & & \text { Substitute } \mathbf{2 0} \text { for } r \text {. Then simplify. }
\end{aligned}
$$

You burn 570 calories if you run for 20 minutes and swim for 30 minutes.
AnimatedAlgebra at classzone.com
6. Simplify the expression $5(6+n)-2(n-2)$.
7. WHAT IF? In Example 5, suppose your workout lasts 45 minutes. How many calories do you burn if you run for 20 minutes? 30 minutes?

