

Lesson 6-14 • Group 1

Reinforce Understanding**6.14 Small Group • Group 1**

With my small group, I can use the distributive property to expand and factor expressions — one step at a time, with support.

Worked model

Each bundle has a ticket (\$15) and a snack (\$5). For 3 bundles I can write $3(15 + 5)$.

1. Way 1: add inside first. $15 + 5 = 20$, then $3 \times 20 = 60$.
2. Way 2: distribute the 3 to each part. $3 \times 15 + 3 \times 5$.
3. That is $45 + 15 = 60$.
4. Both ways give \$60, so $3(15 + 5) = 3 \times 15 + 3 \times 5$.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Use the distributive property to expand each expression.

Complete the table. Show how you found each value.

Factored Form	Expanded Form
$2(x + 5)$	
$4(3 + 7)$	

Show your work

2. Use the distributive property to expand each expression.

Complete the table. Show how you found each value.

Factored Form	Expanded Form
$3(2x + 5)$	
$7(a - 4)$	
$2(3m + 8)$	
$5(6 - y)$	

Show your work

3. Expand $6(n + 3)$ using the distributive property.

Circle the letter of the best answer. Show how you know.

- A. $6n + 18$
- B. $6n + 3$
- C. $6n + 9$
- D. $n + 18$

Show your work
