

Lesson 6-8 • Apply Day

# Reinforce Understanding

## Expanding and Factoring Expressions

I can use the commutative, associative, and identity properties to rewrite expressions.

### Worked model

**Factor the expression  $18x + 24$  using the greatest common factor.**

1. Find what the terms share. The GCF of 18 and 24 is 6.
2. Divide each term by the GCF.  $18x \div 6 = 3x$   $24 \div 6 = 4$
3. Write the GCF outside parentheses.  $6(3x + 4)$
4. Check by distributing.  $6 \times 3x = 18x$  and  $6 \times 4 = 24$

**Answer: The expression  $18x + 24$  factors as  $6(3x + 4)$ .**

### Practice

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

**1. Use the commutative property to rewrite  $2 + 4$ .**

Complete each step, then write the final answer.

1. Keep the same operation: \_\_\_\_.
2. Switch the addends: \_\_\_\_.

Answer: \_\_\_\_\_

**2. Use the commutative property to rewrite  $3 + 6$ .**

Complete each step, then write the final answer.

1. Keep the same operation: \_\_\_\_.
2. Switch the addends: \_\_\_\_.

Answer: \_\_\_\_\_

**3. Use the commutative property to rewrite  $4 + 8$ .**

Complete each step, then write the final answer.

1. Keep the same operation: \_\_\_\_.
2. Switch the addends: \_\_\_\_.

Answer: \_\_\_\_\_