

Name \_\_\_\_\_

Properties



**COMMON CORE STANDARD—5.OA.A.1**  
Perform operations with multi-digit whole numbers and with decimals to hundredths.

Use properties to find the sum or product.

1.  $6 \times 89$

$$6 \times (90 - 1)$$

$$(6 \times 90) - (6 \times 1)$$

$$540 - 6$$

534

2.  $93 + (68 + 7)$

3.  $5 \times 23 \times 2$

4.  $8 \times 51$

5.  $34 + 0 + 18 + 26$

6.  $6 \times 107$

Complete the equation, and tell which property you used.

7.  $(3 \times 10) \times 8 = \underline{\hspace{2cm}} \times (10 \times 8)$

8.  $16 + 31 = 31 + \underline{\hspace{2cm}}$

**Problem Solving**

9. The Metro Theater has 20 rows of seats with 18 seats in each row. Tickets cost \$5. The theater's income in dollars if all seats are sold is  $(20 \times 18) \times 5$ . Use properties to find the total income.

10. The numbers of students in the four sixth-grade classes at Northside School are 26, 19, 34, and 21. Use properties to find the total number of students in the four classes.

11. **WRITE** *Math* Explain how you could mentally find  $8 \times 45$  by using the Distributive Property.

## Lesson Check (5.OA.A.1)

1. To find  $19 + (11 + 37)$ , Lennie added 19 and 11. Then he added 37 to the sum. What property did he use?
2. Marla did 65 sit-ups each day for one week. Use the Distributive Property to show an expression you can use to find the total number of sit-ups Marla did during the week.

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## Spiral Review (Reviews 4.OA.B.4, 4.NBT.B.5, 4.NBT.B.6, 5.NBT.A.1)

3. The average sunflower has 34 petals. What is the best estimate of the total number of petals on 57 sunflowers?
4. A golden eagle flies a distance of 290 miles in 5 days. If the eagle flies the same distance each day of its journey, how far does the eagle fly per day?

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5. What is the value of the underlined digit in the following number?  
2,983,785
6. What best describes the number 5? Write *prime*, *composite*, *neither prime nor composite*, or *both prime and composite*.

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