

## Lesson 5 Skills Practice

### Algebra: Properties

Determine whether the two expressions are equivalent. If so, tell what property is applied. If not, explain why.

1.  $2 \cdot (3 \cdot 7)$  and  $(2 \cdot 3) \cdot 7$

2.  $6 + 3$  and  $3 + 6$

3.  $26 - (9 - 7)$  and  $(26 - 9) - 7$

4.  $18 \cdot 1$  and  $18$

5.  $7 \cdot 2$  and  $2 \cdot 7$

6.  $6 - (4 - 1)$  and  $(6 - 4) - 1$

7.  $7 + 0$  and  $7$

8.  $0 + 12$  and  $0$

9.  $625 + 281$  and  $281 + 625$

10.  $(12 \cdot 18) \cdot 5$  and  $12 \cdot (18 \cdot 5)$

11.  $2 + (8 + 2)$  and  $(2 + 8) + 2$

12.  $40 \div 10$  and  $10 \div 40$

Use one or more properties to rewrite each expression as an expression that does not use parentheses.

13.  $(p \cdot 1) \cdot 6$

14.  $(a + 5) + 23$

15.  $7 \cdot (y \cdot 3)$

16.  $(b + 4) + 17$

17.  $6 + (x + 50)$

18.  $(y \cdot 200) \cdot 2$