

# Lesson 6 Homework Practice

## *Properties*

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

1.  $7 \cdot (6 \cdot t)$  and  $(7 \cdot 6) \cdot t$

2.  $23 + 15$  and  $15 + 23$

3.  $18 - (7 - 3)$  and  $(18 - 7) - 3$

4.  $8 \cdot 1$  and 8

5.  $x \cdot 1$  and  $1 \cdot x$

6.  $10 \div 5$  and  $5 \div 10$

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

7.  $(b + 3) + 6$

8.  $7 + (3 + t)$

9.  $9 \cdot (k \cdot 5)$

10.  $1 + (h + 2)$

11. A grocery store sells an imported specialty cheese for \$11 and its own store-brand cheese for \$5. Write two equivalent expressions for buying one of each cheese and an unknown amount of other groceries.

12. Mr. Kenrick made three deposits to his account in this order: \$460, \$185, and \$240. Show how to use the Commutative Property to find the sum of the deposits mentally.

13. Luzon has 8 fish, 3 cats, and 2 dogs. Write two equivalent expressions using the Associative Property that can be used to find the total number of pets.