NAME _____ DATE _____ PERIOD _____

Lesson 5 Homework Practice

Algebra: Properties

Complete 1–10
(Can do 11-13 for challenge)

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. GROCERY 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. CHECKING ACCOUNT 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. PETS 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.