

## Chapter 5 Expressions


### Lesson 5-3 Properties of Operations

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 **3** Name the property shown by the statement below.

$$16 + (c + 17) = (16 + c) + 17$$

The way in which the numbers are grouped is changed.  
So, The Associative Property of Addition is being used.

 **9** Simplify the expression  $3x \cdot (7 \cdot x)$ . Justify each step.

$3x \cdot (7 \cdot x) = 3x \cdot (x \cdot 7)$	Commutative ( $\times$ )
$= (3x \cdot x) \cdot 7$	Associative ( $\times$ )
$= 3x^2 \cdot 7$	Simplify.
$= 3 \cdot 7 \cdot x^2$	Commutative ( $\times$ )
$= (3 \cdot 7) \cdot x^2$	Associative ( $\times$ )
$= 21x^2$	Simplify.