Name _____ Date _____ Class _____

SECTION 1A

Ready to Go On? Skills Intervention

1-4 Properties of Numbers

Vocabulary
Commutative Property
Associative Property
Identity Property
Distributive Property

Many properties are helpful when performing mathematical operations. The **Commutative Property** states that you can add or multiply numbers in any order and get the same result. The **Associative Property** states that when you add or multiply, you can group numbers together in any order and get the same result. The **Identity Property** states that any number plus 0 is equal to that number and any number times 1 is equal to that number. The **Distributive Property** states that when multiplying, you can break a number into smaller numbers, multiply each number by the second number, and add the products.

Using the Identity Property to Simplify Expressions
Simplify.

A. 73 + 0 = _____

Any number plus 0 is equal to _____.

B. 45 • 1 = _____

Any number times 1 is equal to _____.

Using Properties to Simplify Expressions
Simplify each expression using one or more of the properties.

A. 8 + 17 + 12 = 17 + 12 + 8 is an example of the _____.
= 17 + (12 + 8) is an example of the _____.
= 17 + (_____)
= _____

B. 2 • 14 • 5 = 14 • 2 • 5 is an example of the _____.
= 14 • (2 • 5) is an example of the _____.
= 14 • (_____)
= _____

Using the Distributive Property to Multiply Mentally
Use the Distributive Property to find the product.

6(22) = 6(_____)	Rewrite the number as two smaller parts.
= (6 • _____) + (6 • ____)	Use the Distributive Property.
= _____ + _____	Multiply.
= _____	Add.