## Properties of Operations

## Associative Properties

You can group numbers differently. It will not affect the sum or product.

## Examples:

$2+(7+6)=(2+7)+6=15$
$(4 \times 5) \times 8=4 \times(5 \times 8)=160$

## Multiplication Property of Zero

If you multiply a number by zero, the product will always be zero.

Example: $12 \times 0=0$

Find each missing number. Tell what property or properties are shown.

1. $9 \times 5=5 \times$ $\qquad$
2. $\qquad$ $\times 89=89$
$\qquad$
3. $(3+4)+19=3+($ $\qquad$ $+19)$
$\qquad$
4. $128+$ $\qquad$ $=128$
$\qquad$
5. $\qquad$ $+18=18+12$
$\qquad$
6. Reasoning What is the product of any number, $x$, multiplied by 1 ? Explain how you know.
$\qquad$
$\qquad$
