Commutative Property

Associative Property

Identity Property for Addition or Multiplication

Inverse Property for Addition or Multiplication

Distributive Property

Zero Product Property

"**CO**mmutative"
= **C**hange **O**rder

$3 + 2 = \_\_\_\_ + \_\_\_\_$
$5 \cdot 7 = \_\_\_\_ \cdot \_\_\_\_\_$
$17 + 8 + 3 = 17 + \_\_\_\_ + \_\_\_\_\_$
$5 \cdot 18 \cdot 2 = 5 \cdot \_\_\_\_ \cdot \_\_\_\_$

Associate with
Different **Groups**
= move parentheses

$6 + (4 + 8) = (\_\_\_\_ + \_\_\_\_) + 8$
$4 \cdot (5 \cdot 9) = (\_\_\_\_ \cdot 5) \cdot \_\_\_\_\_$
$(4 + 2) + -2 = 4 + (2 + -2)$

Add Zero to keep the
number's identity
OR
Multiply by One to keep the
number's identity

$975 + 0 = \_\_\_\_\_$
$0 + \_\_\_\_\_ = -7$
$5 + (-3 + 3) = \_\_\_\_\_$
$-28 \cdot \_\_\_\_\_ = -28$
$\_\_\_\_\_ \cdot 1 = 3.75$

Add a number to its
opposite, the answer is 0.
OR
Multiply a number by its
reciprocal, the answer is 1.

$3 + \_\_\_\_\_ = 0$
$-7.5 + \_\_\_\_\_ = 0$
$2 \bullet ½ = \_\_\_\_\_$
$¾ \bullet \_\_\_\_\_ = 1$

Distribute = **Give out**
Distribute number to
each part

$4 \cdot (20 + 3) = 4 \cdot \_\_\_ + 4 \cdot \_\_\_$
$6 \cdot (30 - 1) = \_\_\_ \cdot 30 - \_\_\_ \cdot 1$
$8(\$0.99) = 8(\$1) - 8(\$.\_\_\_\_)$

Zero Product =
Zero Times a number

$21 \cdot 0 = \_\_\_\_\_$
$-8 \cdot \_\_\_\_ = 0$
$6 \cdot (-4 + 4) = \_\_\_\_$
$0 \cdot (793 \cdot 516) = \_\_\_\_\_$