

ADDITIVE IDENTITY PROPERTY

The sum of any number and zero is that number.

$$6 + 0 = 6 \text{ or } 0 + 6 = 6$$

$$x + 0 = a \text{ or } 0 + x = x$$

MULTIPLICATIVE IDENTITY PROPERTY

The product of any number and one is that number.

$$8 \cdot 1 = 8 \text{ or } 1 \cdot 8 = 8$$

$$x \cdot 1 = x \text{ or } 1 \cdot x = x$$

MULTIPLICATIVE PROPERTY OF ZERO

The product of any number and zero is zero.

$$12 \cdot 0 = 0 \text{ or } 0 \cdot 12 = 0$$

$$x \cdot 0 = 0 \text{ or } 0 \cdot x = 0$$

INVERSE PROPERTY

The sum of a number and its inverse (opposite) is zero.

$$9 + (-9) = 0 \text{ or } -9 + 9 = 0$$

$$x + (-x) = 0 \text{ or } -x + x = 0$$