

**Identity Property
of ADDITION**

**Identity Property
of MULTIPLICATION**

**Multiplicative Property
of Zero**

**Inverse Property
of ADDITION**

**Inverse Property
of MULTIPLICATION**

<ul style="list-style-type: none"> • Adding ZERO to any number leaves it unchanged. The number maintains its identity. • In your words: <u> + 0 </u> _____ 	<p><u>Numeric Ex:</u> $3 + 0 = 3$ $0 + 127 = 127$</p> <p><u>Algebraic Ex:</u> $a + 0 = a$ $0 + b = b$</p>
<ul style="list-style-type: none"> • Multiplying ONE by any number leaves it unchanged. The number maintains its identity. • In your words: <u> × 1 </u> _____ 	<p><u>Numeric Ex:</u> $7 \times 1 = 7$ $1 \bullet 16 = 16$</p> <p><u>Algebraic Ex:</u> $a \times 1 = a$ $1b = b$</p>
<ul style="list-style-type: none"> • The product of ZERO and any number is ZERO. • In your words: <u> × 0 </u> _____ 	<p><u>Numeric Ex:</u> $12 \bullet 0 = 0$ $0 \times 97 = 0$</p> <p><u>Algebraic Ex:</u> $a \bullet 0 = 0$ $0a = 0$</p>
<ul style="list-style-type: none"> • A number added to it's inverse (positive or negative) always equals ZERO. The opposite of a number. • In your words: <u> = 0 </u> _____ 	<p><u>Numeric Ex:</u> $8 + -8 = 0$ $2 - 2 = 0$</p> <p><u>Algebraic Ex:</u> $a + -a = 0$ $b - b = 0$</p>
<ul style="list-style-type: none"> • A number multiplied by it's inverse (it's reciprocal) always equals ONE. The opposite of a number. • In your words: <u> = 1 </u> _____ 	<p><u>Numeric Ex:</u> $3 \bullet \frac{1}{3} = 1$ $\frac{7}{9} \bullet \frac{9}{7} = 1$</p> <p><u>Algebraic Ex:</u> $a \left(\frac{1}{a} \right) = 1$ $\frac{b}{1} \bullet \frac{1}{b} = 1$</p>