

**Commutative Property  
of ADDITION**

**Commutative Property  
of MULTIPLICATION**

**Associative Property  
of ADDITION**

**Associative Property  
of MULTIPLICATION**

**Distributive Property**

<ul style="list-style-type: none"> <li>You can <b>add</b> numbers <b>in any order</b> and get the <b>same answer</b>.</li> <li>In your words: _____ _____</li> </ul>	<p><b><u>Numeric Ex:</u></b>    <math>6 + 4 = 4 + 6</math> <math>10 = 10</math></p> <p><b><u>Algebraic Ex:</u></b>    <math>a + b = b + a</math></p>
<ul style="list-style-type: none"> <li>You can <b>multiply</b> numbers <b>in any order</b> and get the <b>same answer</b>.</li> <li>In your words: _____ _____</li> </ul>	<p><b><u>Numeric Ex:</u></b>    <math>7 \cdot 8 = 8 \cdot 7</math> <math>56 = 56</math></p> <p><b><u>Algebraic Ex:</u></b>    <math>ab = ba</math></p>
<ul style="list-style-type: none"> <li>When you <b>add</b>, you can <b>group numbers</b> together <b>in any combination</b>.</li> <li>In your words: _____ _____</li> </ul>	<p><b><u>Numeric Ex:</u></b>    <math>(4 + 5) + 6 =</math> <math>4 + (5 + 6)</math></p> <p><b><u>Algebraic Ex:</u></b>    <math>(a + b) + c =</math> <math>a + (b + c)</math></p>
<ul style="list-style-type: none"> <li>When you <b>multiply</b>, you can <b>group numbers</b> together <b>in any combination</b>.</li> <li>In your words: _____ _____</li> </ul>	<p><b><u>Numeric Ex:</u></b>    <math>(2 \cdot 3) \cdot 5 =</math> <math>2 \cdot (3 \cdot 5)</math></p> <p><b><u>Algebraic Ex:</u></b>    <math>(ab)c =</math> <math>a(bc)</math></p>
<ul style="list-style-type: none"> <li>You can use this property to <b>multiply numbers mentally by breaking apart one of the numbers and writing it as a sum</b>.</li> <li>In your words: _____ _____</li> </ul>	<p><b><u>Numeric Ex:</u></b>    <math>3(7 + 8) =</math> <math>(3 \cdot 7) + (3 \cdot 8)</math></p> <p><b><u>Algebraic Ex:</u></b>    <math>a(b + c) =</math> <math>(ab) + (ac)</math></p>