2.7: The Distributive Property

**INVESTIGATION:** Consider this chart-

|  |  |  |
| --- | --- | --- |
| Expression | Addition | Answer |
|  |  |  |
|  | +  =  = |  |
|  | =  = |  |
|  | )  =  = |  |

What do you notice about the expression (column 1) and the answer (column 3)?

What would you predict to be the answer to

|  |
| --- |
| The Distributive Property:  \_\_\_\_\_\_\_\_\_\_ each term \_\_\_\_\_\_\_\_\_\_ the bracket by the term \_\_\_\_\_\_\_\_\_\_\_\_\_ the bracket. |

Try these examples. When you are done, show your math teacher. Remember to add the exponents when the bases are the same !!

1. c.
2. d.
3. In the rectangles below, the short sides have a length of 1. The long sides have a length of .

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Rectangle** | **Width** | **Length** | **Area** | **Equation** |
|  | 2 |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Example:** Expand and simplify. Remember to follow the rules of BEDMAS!

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | |  |
|  | |  | |
|  | |  | |
|  | |  | |