**SWBAT:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |
| --- |
| **a0 =** |
| **a-n =** |

**Exponential Expressions**



 ***x*3  means \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** $a^{n}$

|  |
| --- |
| **am**$∙$ **an=** |

**Multiplying with Exponents** Multiply the ­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Add the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Examples:

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

|  |
| --- |
| **(am)n =** |
| **(ab)m =** |

**Power of a Power**

 Multiply the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Raise everything **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Examples:

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

|  |
| --- |
| $\frac{a^{m}}{a^{n}}$ **=** |
| $ (\frac{a}{b})^{m}$**=** |

**Dividing with Exponents**

Subtract the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Raise everything **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Examples:

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

**Quick Review!**

|  |  |  |  |
| --- | --- | --- | --- |
| **Follow These Rules!** |  **am**$∙$ **an=** |  **(ab)m =** | $\frac{a^{m}}{a^{n}}$ **=** |
|  **a0 =** |  **a-n =** |  **(am)n =** | $ (\frac{a}{b})^{m}$**=** |

HW: U6 L1 Homework