**Algebra 2,Unit 8**: Exponent Properties **#20**

**Day 20:** **Exploring Zero and Negative Exponents**

Complete the table below.

|  |  |
| --- | --- |
| **Expression** | **Value** (written as a whole number or fraction) |
| 24 |  |
| 23 |  |
| 22 |  |
| 21 |  |
| 20 |  |
| 2-1 |  |
| 2-2 |  |
| 2-3 |  |
| 2-4 |  |

|  |
| --- |
| **Zero Exponents:** **x0 =**  |

|  |
| --- |
| **Negative Exponents:** **x-a =**  |

**Examples:**

**1.** $x^{-2}⋅x^{5}$ **2.** $4^{8}⋅4^{-3}$

**3.** $3xy^{3}y^{-7}^{}$ **4.** $12ab^{5}b^{-11}^{}$

**Practice: Negative and Zero Exponent Properties**



**MORE Exponent Examples and Practice**

**Combining Positive Properties**

Example 1: Example 2:

**Combining Negative Properties**

Example 1: Example 2:

**You Try:**

1. (3x4y5)(2x3)2 2. $\frac{8a^{5}b^{-5}}{2a^{-2}b^{}}$

**Review**





