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| **Mini Lessons #5:EXPONENTS (Integers and Expressions Unit Math 7)**  **LEARNING TARGETS**  \_\_\_\_ I can explain in my own words what an exponent is and can identify the parts of a power.  \_\_\_\_ I know what exponential notation and standard form are.  \_\_\_\_ I can show repeated multiplication for numbers in exponential notation.  \_\_\_\_ I can evaluate numbers that are in exponential notation.  \_\_\_\_ I can solve word problems involving exponential notation.  **Vocabulary**: Base Exponent Standard Form |
| **Forms used with Exponents**  Complete the table below:   |  |  |  | | --- | --- | --- | | Exponential Form | Expanded Form | Standard Form | | 20 |  |  | | 21 | 2 | 2 | | 22 | 2×2 | 4 | | 23 | 2×2×2 | 8 | | 24 |  |  | |  |  |  |  * Special Case: Any base to the **zero** power = 1   Ex 1: 100 = 1 Ex 2: 2000000 = \_\_\_\_\_ |

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| **Practice for ML #5 – Integers and Expressions Unit (Math 7)**  Evaluate each exponent:   1. 34 = 2) 101 = 2. 43 = 4) 25 = 3. 62 = 6) 110 = 4. 140 = 8) 53 = 5. 22 ●33 10) 16 ●42 |