**Exponents**

Base Number←**4³**↘ Exponent

* Exponents show repeated multiplication.
* Exponents represents how many times a number (Base) is multiplied by itself.

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| **Exponent Form**  4³ | **Word Form**  Four to the power of three |
| **Expanded Form**  4 • 4 • 4 | **Standard Form**  64 |

* Incorrect ways to complete exponents are:
* **Example A**: 4 + 3 = 7
* **Example B**: 4 • 3 = 12
* **Example C**: Counting by 4s.

**↑↑Those are NO-NOs!!!!!!!!!!! ↑↑**

* Be careful, any number raised to the first power is itself.
* Example A: 10¹ **=** 10
* Example B: 4¹ = 4
* Any number raised to the zero is always 1
* Example A: 10⁰ = 1
* Example B: 5⁰ = 1
* Other examples:
* Example A: 10⁴ = 10,000
* Example B: 10⁶ = 1,000,000
* Example C: 2 X 10⁴ = 20,000
* Example D: 20 X 10⁴ = 200,000
  + 20 X 10,000 = 200,000→ Showing work!

**Practice Problems**

1. Complete Chart

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| **Exponent Form** | **Word Form**  eight to the power of two |
| **Expanded Form** | **Standard Form** |

1. Complete Chart

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| **Exponent Form**  5² | **Word Form** |
| **Expanded Form** | **Standard Form** |