Mighty Mnemonics Project

**Standard:** MCC6.EE.1 Write and evaluate numerical expressions involving whole-number exponents.

Numbers and Operations -Understand meanings of operations and how they relate to one other.

**Objective:** Students will create their own Mnemonic to help them relate solving numerical expressions to real world strategies.

**Task:**  You have been asked to teach your younger cousin how to solve problems using the order of operation.

Directions:

1. You may not use anything larger than a poster board. **If you have extra time, you may record your presentation using the iPad minis.**
2. Create 3 sections on your presentation board.

|  |  |  |
| --- | --- | --- |
| Left Side | Center | Right Side |
| List the correct order for solving numerical expressions. What is the Order of Operations?**Label:** Order of Operations | Explain to your cousin how to solve numerical expressions. Use the expression given below as an example.**Label:** Explanation | Create a Mnemonic to help your cousin remember how to use the order of operation when solving numerical expressions. Draw a picture that reflects your Mnemonic.**Label:** Mnemonics |
| Hint: PEMDAS | 1. 20 ÷ (12 – 2) x 3² + 2
2. 4( 4 ÷ 2 + 4)
3. (10 x 2) ÷ (20 ÷ 2)
4. 8 – 1 – (18 – 2) ÷ 8
5. 4² + 20 – ($3^{3}$ ÷ 9 )
 | Example: **P**ink **E**lephants **M**ust **D**ance **A**nd **S**ing. |

**Rubric:**

3 Sections Created & Labeled 15 points

Left-Side (colorful, complete, creative) 25 points

Center-Section (colorful, complete, creative) 25 points

Right-Side (colorful, complete, creative) 25 points

Document contains (First & Last Name & Period; located on the back) 10 points