

Math 5

UNIT 1 – Numerical Expressions

1-3 **Order of Operations without Parentheses**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name:** |  | **Date:** |  |

|  |  |
| --- | --- |
| **Common Core Standards** | [CCSS.MATH.CONTENT.5.OA.A.1](http://www.corestandards.org/Math/Content/5/OA/A/1/) Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols. |

1-3 Order of Operations without Parenthesis

**Step #1**

**Always work from left to right, like the arrows below.**

**Step #2**

**Work with MULTIPLICATION or DIVISION, whichever comes first, from LEFT to RIGHT.**

**Step #3**

**Work with ADDITION or SUBTRACTION, whichever comes first, from LEFT to RIGHT.**

Let’s find out why Sally got it right and James didn’t!

**The Funnel Method**

1. **Write the expression horizontally.**
2. **Determine the operation that should be done first, following the MDAS rule, and underline it.**
3. **Perform the said operation and rewrite the expression the way it appeared in the original expression.**
4. **Underline the next operation following the MDAS rule.**
5. **Continue performing the operations one at a time, and rewrite the expression after each step until you’ve completed all the operations… and have one value left.**

Fill Me Up!

Evaluate the given numerical expression by filling the Funnel with the correct order of operations.

v

Task Cards

Evaluate the following numerical expressions. Match the pink card with the blue card.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | **1.** | |  | |  | |  | | --- | | **a.** | | 5 | |
|  |  |  |
| |  | | --- | | **2.** | |  | |  | |  | | --- | | **b.** | | 6 | |

|  |
| --- |
| **3.** |
|  |

|  |
| --- |
| **c.** |
| 1 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | **4.** | |  | |  | |  | | --- | | **d.** | | 17 | |
|  |  |  |
| |  | | --- | | **5.** | |  | |  | |  | | --- | | **e.** | | 22 | |

|  |
| --- |
| **6.** |
|  |

|  |
| --- |
| **f.** |
| 0 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **ANSWER KEY** | | |
|  | **Situation 1** |  | |
|  | **1.** |  | |
|  |  |  | |
|  |  |  | |
|  | **Task Cards** | |  | |
|  | **1.** | | **b** | |
|  | **2.** | | **a** | |
|  | **3.** | | **d** | |
|  | **4.** | | **f** | |
|  | **5.** | | **c** | |
|  | **6.** | | **e** | |