

Math 5

UNIT 1 – Numerical Expressions

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

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

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

$$3+5×9÷15-4$$

v

Task Cards

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

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| --- |
| **1.** |
| $$9-3×2+12÷4$$ |

 |  |

|  |
| --- |
| **a.** |
| 5 |

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|  |  |  |
|

|  |
| --- |
| **2.** |
| $ $$$25÷5+4×2-8$$ |

 |  |

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

 |

|  |
| --- |
| **3.** |
| $$18-4+5×3÷5$$ |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|

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| --- |
| **4.** |
| $$36÷12+5-4×2$$ |

 |  |

|  |
| --- |
| **d.** |
| 17 |

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|  |  |  |
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|  |
| --- |
| **5.** |
| $$18×2÷9+4-7$$ |

 |  |

|  |
| --- |
| **e.** |
| 22 |

 |

|  |
| --- |
| **6.** |
| $$18+2×3-10÷5$$ |

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

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