

Math 5

UNIT 1 – Numerical Expressions

1-1 Writing and Interpreting Numerical Expressions

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

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| **Common Core Standards** | [CCSS.MATH.CONTENT.5.OA.A.2](http://www.corestandards.org/Math/Content/5/OA/A/2/)Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. *For example,* *express the calculation "add 8 and 7, then multiply by 2" as 2 × (8 + 7).* *Recognize that 3 × (18932 + 921) is three times as large as 18932 + 921,* *without having to calculate the indicated sum or product*. |

* 1. Writing and Interpreting

Numerical Expressions

**Writing Numerical Expressions**

Verbal Phrase:

Thrice the sum of seven and five

$$3×(7+5)$$

**Interpreting Numerical Expressions**

Situation:

Mike is 5 years old, and his father is 6 times plus 3 years older than him. Draw a tape diagram and numerical expression that shows his father’s age.

Tape Diagram:

5

Mike’s age

5

5

5

5

5

5

3

Mike’s dad’s age

Numerical Expression:$ \left(6×5\right)+3$

More than? Less than? Equal?

Compare the given numerical expressions using >,< or =.

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| 1. $17×4$
 |  |  Two seventeens  doubled |
| 1. $(7+3)×5$
 |  | $$6×(8+2)$$ |
| 1. $(22+1)×12$
 |  | $$21×(20+2)$$ |

Task Cards

Match the pink and blue cards with the correct verbal phrase of the given numerical expressions.

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| **1.** |
| $$(9÷3)+5×(3-2)$$ |

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| **a.** |
| Nine divided by the sum of three and five multiplied by the difference of three and two |

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| **2.** |
| $$ 9÷(3+5)×(3-2)$$ |

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| **b.** |
| The quotient of nine and three plus the product of five and three minus two |

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| **3.** |
| $$(9÷3)+(5×3)-2$$ |

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| **c.** |
| The quotient of the sum of 40 and 10 and the difference of five and four, multiplied by two |

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| **4.** |
| $$(40+10)÷(5-4)×2$$ |

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| **d.** |
| The quotient of nine and three plus five, times the difference of three and two |

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| **5.** |
| $$\left(40÷10\right)+(5-4)×2$$ |

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| **e.** |
| The quotient of forty and ten plus the difference of five and four multiplied by two |

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| **6.** |
| $$40+(10÷5)-(4×2)$$ |

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| **f.** |
| Forty plus the quotient of ten and five minus the product of four and two |

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