

## What Is Evaluating Numerical Expressions Using Order of Operations?

- A numerical expression is a phrase which represents a number:
  - 25 increased by 33  $\rightarrow 25 + 33 = 8$
  - 50 decreased by 34  $\rightarrow 50 - 34 = 16$
  - Two-thirds of 12  $\rightarrow 2/3 \times 12 = 8$

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**PREVIEW**

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- Complete the operations inside the parentheses
- Simplify all exponents
- Multiply or divide from left to right
- Add or subtract from left to right

## How to evaluate numerical expressions using order of operations:

- Numerical expressions often require more than one step, for instance,  $5 \times (18 \div 3)$ .
- Work from left to right to solve a multi-step problem.

- $124 \div 4 - 15 \rightarrow 31 - 15 = 16$

- Simplify all operations inside parentheses first:

- $135 - (42 \times 3) \rightarrow 135 - 126 = 9$



**PREVIEW**

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Try This

$10^2 \times (54 \div 9)$  \_\_\_\_\_

$125 - (2 + 9) - 4$  \_\_\_\_\_

$(3^2 \times 6) \div 3$  \_\_\_\_\_

$56 \div 8 - 9$  \_\_\_\_\_

$7^2 - (49 \div 7)$  \_\_\_\_\_