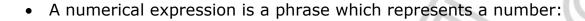


## What Is Evaluating Numerical Expressions Using Order of Operations?



- 25 increased by  $33 \rightarrow 25 + 33 = 8$
- 50 decreased by  $34 \rightarrow 50 34 = 16$
- Two-thirds of  $12 \rightarrow 2/3 \times 12 = 8$
- Some numerical expressions may require more than one operation:



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Evaluat
an ord

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- Work from left to right
- o Complete the operations inside the parentheses
- Simplify all exponents
- o 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:

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

- Working from left to right, simplify all exponents, complete operations inside parentheses, and then solve:
- 632 (2

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division



PREVIEW

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•  $5^3 \div (14)$ 

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32 = 100

and then otraction:

= 7

## **Try This!**

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