

ORDER OF OPERATIONS

When a math problem has more than one operation, you must follow the RULES for the order of operations.

Operations = multiplication, division, addition, and subtraction.

Rules of Order of Operations:

- 1st: Compute all operations inside of **parentheses**.
- 2nd: Compute all work with **exponents**. (number ^{Exponent})
- 3rd: Compute all **multiplication** and **division** from left → right.
- 4th: Compute all **addition** and **subtraction** from left → right.

THINK:

(P = parenth
S = subtract

Note:



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addition &

olving,

For example, if your math problem does not include parentheses, move onto 2nd step. If your math problem does not include exponents either, then move onto 3rd step.

Example: $10^2 + (3 \times 8) - 14 \div 2$

1st: **Parentheses** $10^2 + (3 \times 8) - 14 \div 2$

$$10^2 + 24 - 14 \div 2$$

2nd: **Exponents** $10^2 + 24 - 14 \div 2$

$$100 + 24 - 14 \div 2$$

3rd: **Multiplication and Division** $100 + 24 - 14 \div 2$

$$100 + 24 - 7$$

4th: **Addi**

Addi

124

Subt



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$$10^2 + (3 \times 8) - 14 \div 2 = 117$$