

ORDER OF OPERATIONS

How do we compute _____ ? There is a standard order in which we compute more complicated expressions. It is called the rules for order of operations.

RULES FOR ORDER OF OPERATIONS

1. Simplify, if possible, within the innermost grouping symbols, (), { }, [], | |, and above or below any fraction bars.
2. Simplify all exponential expressions.
3. Perform all multiplications and divisions, working from left to right.
4. Perform all additions and subtractions, working from left to right.

Example: Simplify

Solution:

Example: Simplify

Solution:

Example: Simplify

Solution:

$$= 48$$

Example: Simplify

Solution:

$$= 68$$

Example: Simplify

Solution:

$$=$$

$$= 2$$

Example: Simplify

Simplify:

- 1.
- 2.
- 3.
- 4.
- 5.

32. -

33. -

34. - - - -

35. - - -

36. - -

37. - - - -

38. $\frac{-}{-}$

39.

40.

41. _____