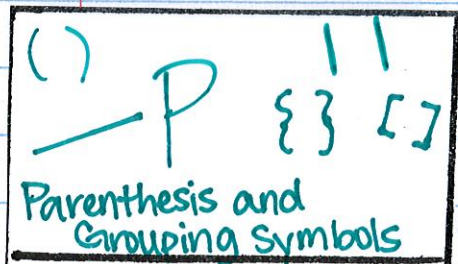
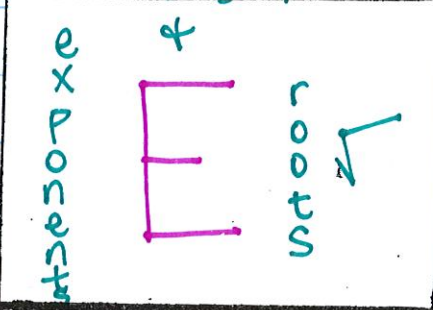


Order of Operations



→ Parenthesis, brackets, braces, absolute value, fraction bar



Example:

$$17 - 5^2 \div (2 + 3)$$

parenthesis

$$17 - 5^2 \div (5)$$

exponent

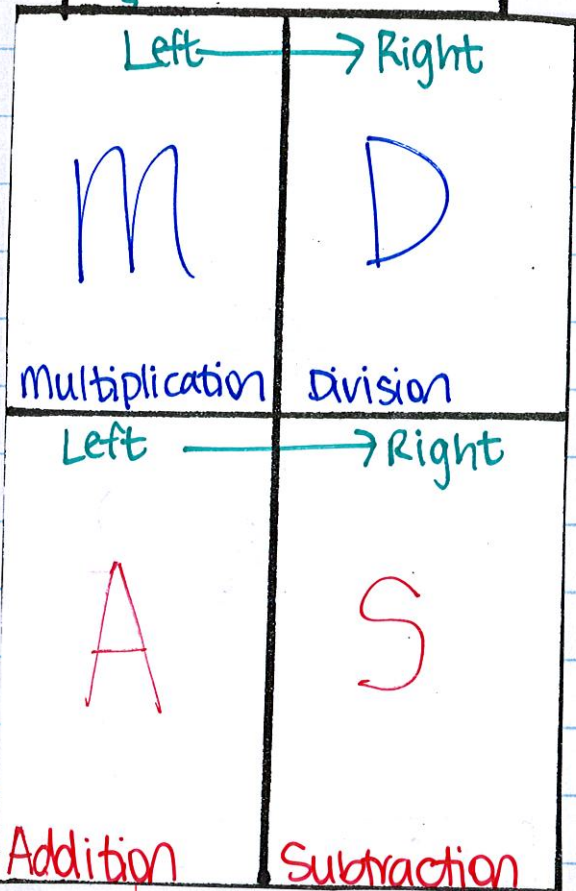
$$17 - 25 \div (5)$$

divide

$$17 - 5$$

subtract

$$= 12$$



Always multiply and divide from left to right!

Always add and subtract from left to right!

* Inside grouping symbols always follow order of operations!

#5

$$4^3 \div 2 + (-48) \div 2$$

$$64 \div 2 + (-48) \div 2$$

divide

$$32 + (-48) \div 2$$

divide

$$32 + -24$$

change to one sign

$$= 32 - 24$$

subtract

$$= \boxed{8}$$

#12

$$(4 - 1^3)^2 - 12$$

$$(4 - 1)^2 - 12$$

$$(3)^2 - 12$$

$$9 - 12$$

$$= -3$$

#11

$$- [10 \cdot (-2) + (-25)] \div (-5)$$

$$- [-20 + (-25)] \div (-5)$$

$$- [-20 - 25] \div (-5)$$

$$- [-45] \div -5$$

$$[45] \div -5$$

$$= \boxed{-9}$$