

Sept 9th, 2022

Lesson 6: Order of Operations on Integers

↓
which operation + / - / x / ÷
to do 1st

e.x. Evaluate: Find the value of:

$$[3 - 2(6 - 3) - 4(2)] + 1$$

$$[3 - 2 \times (6 - 3) - 4 \times (2)] + 1$$

step i: Read the expression to indicate which operations are involved.

* you can add x because sometimes it's not written

examples:

ex. 1. $2(-3)$ ex. 2. $2 - 3$
 $2 \times (-3)$ 2 minus 3
 2 times negative 3

$$[3 - 2 \times (6 - 3) - 4 \times (2)] + 1$$

$$[3 - 2 \times (3) - 4(2)] + 1$$

$$[3 - 6 - 4 \times (2)] + 1$$

$$[3 - 6 - 8] + 1$$

$$[-3 - 8] + 1$$

$$[-11] + 1$$

$$-10$$

step ii Circle which operation(s) to do 1st. Then evaluate that operation.

How to know which one? Follow:

- ① B - Brackets - smallest brackets 1st
 - ② E - Exponents - operation
 - ③ { D - Division - operation on left 1st
 - M - multiplication - operation on left 1st
 - ④ { A - Addition - operation on left 1st
 - S - subtraction - operation on left 1st
- * * very important, add later to memory aid!