Section 1.5: The Order of operations

Tuesday, January 22, 2019 2:06 PM

a nice way to remember the order of operations:

note: the fraction ber ___ behaves like brackets

$$\frac{1}{2+3} = \frac{1}{(2+3)} = \frac{1}{5}$$

examples:

$$(4-8)^{2} \div 4 \times 3 = (-4)^{2} \div 4 \times 3$$

do Brackets first

= 16 - 4) × 3

do Brackets first

Brackets first

division/multiplication from

left to right

examples:

BEDMAS

evaluate
$$(-5)^{2} + 15 \div 3 + 4 \cdot 2$$

25 + 5 + 8

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a

36 - (10)(3)

$$\frac{1}{3} \div \left(-\frac{2}{5}\right) \div \left(-\frac{5}{6}\right) + \left(-18\right)$$

$$\frac{1}{3} \times \left(-\frac{5}{3}\right) \times \left(-\frac{6}{5}\right) + \left(-18\right)$$

$$\frac{30}{30} + \left(-18\right)$$

$$1 + \left(-18\right)$$

$$-17$$

$$-17$$

$$-17$$

$$-17$$

$$-17$$

could do

 $6 - \left[-3(2-4)^{3} - 3(4+1) \right]$ $6 - \left[-3(-2)^{3} - 3(5) \right]$ $6 - \left[-3(4) - 15 \right]$ $6 - \left[-12 - 15 \right]$ 6 - (-27) = 6 + (-1)(-27) 6 + 27

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