



ST. JEAN DE BREBEUF MATHEMATICS

NUMBER SENSE

ORDER OF OPERATIONS

(BEDMAS)

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ORDER OF OPERATIONS (BEDMAS)

KEY CONCEPTS

To remember the order of operations use **BEDMAS**

B (Do all calculations in the **BRACKETS** first)

E (Simplify numbers with **EXPONENTS**)

DM (**DIVIDE** and **MULTIPLY** in order from *left to right*)

AS (**ADD** and **SUBTRACT** in order from *left to right*)

EXAMPLE

$$3(6 + 4)^2 - 20 \div 5$$

* Evaluate **brackets** and **exponents** first

$$= 3(10)^2 - 20 \div 5$$

$$= 3(100) - 20 \div 5$$

$$= 300 - 20 \div 5$$

* **Divide** numbers

$$= 300 - 4$$

$$= 296$$

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PRACTICE

(a) $(3 - 1) \times 5$

$$= 2 \times 5$$

$$= 10$$

* Simplify numbers in the **brackets** first, then **multiply**

(b) $(2 + 3)^2$

$$= (5)^2$$

$$= 25$$

* Simplify numbers in the **brackets** first, then evaluate the **exponent**

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PRACTICE

(c) $3 + 18 \div 3$

$$= 3 + 6$$

$$= 9$$

* **Divide**
the
numbers
first!

(d) $4(7 - 1) \div (5 - 3)$

$$= 4(6) \div 2$$

$$= 24 \div 2$$

$$= 12$$

* Simplify the
numbers in the
brackets first!

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PRACTICE

$$\begin{aligned} \text{(e)} \quad & 6 \times 4 + 3^2 - 6 \\ & = 6 \times 4 + 9 - 6 \\ & = 24 + 9 - 6 \\ & = 27 \end{aligned}$$

* Simplify the **exponent** first

* **Multiply** the numbers next, then simplify

$$\begin{aligned} \text{(f)} \quad & 10 \div (10 - 2^3) \\ & = 10 \div (10 - 8) \\ & = 10 \div 2 \\ & = 5 \end{aligned}$$

* Simplify the **exponent** first, then simplify the numbers in the brackets

Homework

Worksheets in the package!

Begin Review when completed (if you have questions, have them ready next class!)