



Math: Order of operations

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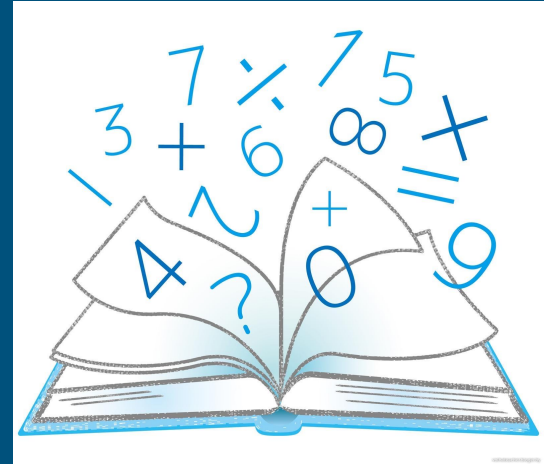
What is the order of operations in math?

Look at these expressions:

$$10 - 1 + 2 + 3$$

$$(3 + 5) + 2 \times 3$$

$$5 \times 2 + (5 - 3) \div 2 + 1.$$



Such expressions cannot be calculated immediately, so let's consider **the rules of the order of operations** in math.

PEMDAS

First action: Parentheses

Calculate what is in parentheses

Example:

$$(3 + 1) \times 2 + 6^2 \div 3 - 7$$

Let's calculate what's in parentheses: $3 + 1$

It turns out: $4 \times 2 + 6^2 \div 3 - 7$.

Let's move on to the next rule!

Second action: Exponents

Calculate all exponential expressions

Continuation of our example:

$$4 \times 2 + 6^2 \div 3 - 7$$

Let's calculate: $6^2 = 36$

It turns out: $4 \times 2 + 36 \div 3 - 7$

Go ahead!

Third action: Multiplication & Division

Perform all multiplication and division in order from left to right

Let's see on our example:

$$\underline{4 \times 2} + \underline{36 \div 3} - 7$$

After calculating it turns out: $8 + 12 - 7$

Let's move on to the last rule!

Fourth action: Addition & Subtraction

Perform all addition and subtraction in order from left to right

Example:

$$8 + 12 - 7 = 13$$

Congratulations! We have calculated this example perfectly!

Now try to fill out the
worksheet!

** the worksheet can be found on the Kids Circle Foundation website
in the Study Center, Math section