

QUICK TIP!

Hey Kids! Time for a super fun math lesson, courtesy of Math Madness!

ORDER OF OPERATIONS

When solving a math equation, the order of operations tells us the order in which to do the various calculations. The basic rules are as follows:

- 1) P: Do anything in parentheses first
- 2) E: Resolve any exponents
- 3) MD: Do any multiplication and division, working left to right.
- 4) AS: Do any addition and subtraction, working left to right.

Let's look at some examples:

$$5 - 3 - 2 = 2 - 2 = 0$$

Subtract 3 from 5. Then subtract two from the result.

$$5 - (3 - 2) = 5 - 1 = 4$$

Subtract 2 from 3 as it is in parentheses. Then subtract the result from 5.

$$6 \times 3 - 2 \times 2 = 18 - 2 \times 2 = 18 - 4 = 14$$

Multiply 6 by 3. Then multiply 2 by 2. Finally, do the subtraction.

$$6 \times 10^2 - 5 = 6 \times 100 - 5 = 600 - 5 = 595$$

Resolve the exponent. Then perform the multiplication. Finally, subtract 5.

TRY IT!

Use what you know about the order of operations to solve the math problems below:

$$22 + 5 \times 3 = \underline{\hspace{2cm}}$$

$$(22 + 5) \times 3 = \underline{\hspace{2cm}}$$

$$3 \times 10^3 + 4 \times 10^2 = \underline{\hspace{2cm}}$$

$$3 \times (10^3 + 4 \times 10^2) = \underline{\hspace{2cm}}$$

$$24 \div 4 + 2 = \underline{\hspace{2cm}}$$

$$24 \div (4 + 2) = \underline{\hspace{2cm}}$$

$$4 + 2 \times 10^2 - 3 = \underline{\hspace{2cm}}$$

$$(4 + 2) \times 10^2 - 3 = \underline{\hspace{2cm}}$$

$$54 \div 9 \div 3 = \underline{\hspace{2cm}}$$

$$54 \div (9 \div 3) = \underline{\hspace{2cm}}$$