

Content and Language Objective:

Students will analyze the orders of operations to strengthen their problem solving skills in mathematics.

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### **Warm-Up**

**Get out your Planner and write in the following entries:**

- 1. Summer Homework due Friday**
- 2. Materials due Friday**
- 3. Syllabus due Friday**

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**A key to being successful in Algebra is to understand what you are going to do and why you are doing it. Look at objective and fill in the following statements below.**

**What are you going to be doing today in class?**

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**Why are you going to be doing this?**

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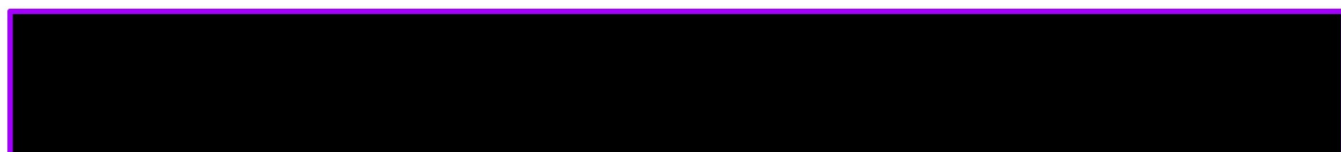
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Pair up with someone and talk about where in the real world you might see something done in a specific order.

Why does it have to be done in a specific order?

What would happen if it was done out of order?

Lets share with the class.



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In your notes, please write what you know about the orders of operations.


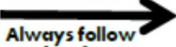




Not done in correct order = wrong answer

Rules of PEMDAS

Solve left to right

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<p><b>ORDER MATTERS SOLDIER!</b></p>  <p>LEFT! RIGHT! LEFT! RIGHT!</p> <p>Always follow orders from Left to Right!</p> 	<p>1st ORDER OF THE DAY: Solve those Groups!</p> <p><i>grouping symbols</i></p> <p><b>G</b></p> <p><i>( ) { }</i> <i>[ ]</i></p>	<p>2nd ORDER OF THE DAY: Solve those Exponents!</p> <p><b>E</b></p> <p><i><math>3^2</math></i></p>	<p>3rd ORDER OF THE DAY: Work left to right to solve all Multiplication &amp; Division!</p> <p><b>M</b></p> <p><i><math>\div</math> or <math>\times</math></i></p>	<p>4th ORDER OF THE DAY: Start left &amp; head right to solve all Subtraction &amp; Addition!</p> <p><b>S</b></p> <p><i><math>+</math> or <math>-</math></i></p>
				

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Challenge: come up with a challenging orders of operations problem and solve it (show each step)

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Talk to the person next to you about why the orders of operations are super important in mathematics.



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$$3(4 + 7) - 5(7)$$

$$3(11) - 5(7)$$

$$33 - 35$$

$$\boxed{-2}$$





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Pick two of the four problems below and on your notes simplify them and circle your answers. In a few minutes I will show my work for each one and you can check your answers. If you finish early, pick a third one to try in your notes.

1)  $((-9)(2)) \div (-2 - 4)$

2)  $(3^2 - -3) \div (3 - -1)$

3)  $(1^2)((-4)(-2 + 4))$

4)  $(4)(-1) - 6 + -5 - 3$



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Get the problems out from yesterday and make sure you have 2 completed.

$$\begin{aligned} 1) & ((-9)(2)) \div (-2 - 4) \\ & -18 \div -6 \\ & \textcircled{3} \end{aligned}$$

$$\begin{aligned} 3) & (1^2)((-4)(-2 + 4)) \quad (1)(-8) \\ & (1^2)((-4)(2)) \\ & (1^2)(-8) \quad \textcircled{-8} \end{aligned}$$

$$\begin{aligned} 2) & (3^2 - -3) \div (3 - -1) \\ & (9 + 3) \div (3 + 1) \\ & 12 \div 4 \\ & \textcircled{3} \end{aligned}$$

$$\begin{aligned} 4) & (4)(-1) - 6 + -5 - 3 \\ & -4 - 6 + -5 - 3 \\ & -10 + -5 - 3 \\ & -15 - 3 \quad \textcircled{-18} \end{aligned}$$

CLO:

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You are going to be given a set of practice problems, then write down all the work and answers on your sheet, talk about them with people around you, get them checked, keep in your binder with your notes

$$\begin{array}{r} 12 \times 5 - 3 \times 20 \\ 60 - 60 \\ 0 \end{array}$$