Launch

1. -10 x 5 =

2. -10 + 5 =

3. -10 - 5 =

4. $\frac{-10}{5}$ =

5. Explain why 10^5 is not = to 50

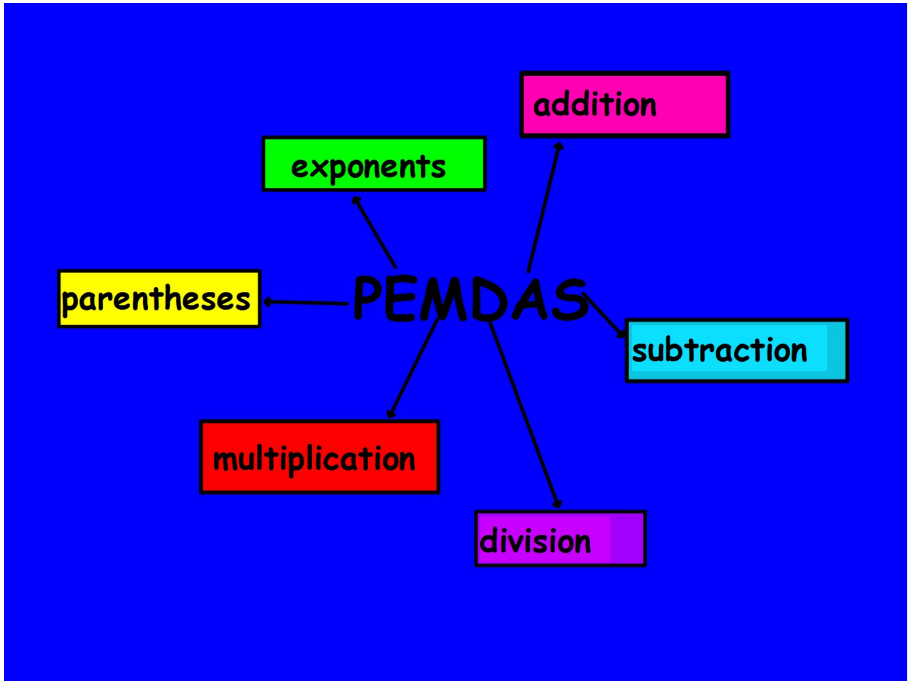
Order of Operations Review (Day 1)

Learning Intentions - I understand the order of operations and the reason such rules are necessary in math.

Success Criteria - I can apply the order of operations and accurately simplify a given expression.

Order of Operations: is the specific order in which problems are solved when there is more than one operation in the problem

WHY DO WE NEED AN ORDER?



Remember

Multiplication and division work together(similar). If you have both operations in the same problem, you need to work left to right. (even if you are doing division first!)

The same thing works with addition and subtraction. Work left to right if they are both in the same problem.

To help remember PEMDAS we use the saying...

Please Excuse My
Dear Aunt Sally

Examples: Solve the following problems.

1. $32 - 16 + 2$

2. $12 + 6 \div 3 - 2$

3. $\{(9 - 7)^2 + 5\} + 26$

4. $48 \div 3 \cdot 2$

When there is a fraction bar in the problem, follow order of operations on the top and then bottom. Then simplify the fraction.

Examples: Solve.

5. $\dfrac{16 \cdot 2 + 8}{10 + 2^2 - 4}$

6. $\dfrac{24 \cdot 3}{5 + 3^2 - 2}$

7. $\dfrac{(4 + 6)^2}{4}$

Assignment:

Order of Operations Review Worksheet

Warm Up

1. $12 - 4 \cdot 2$

2. $(3 + 5) \div 2 \cdot 3$

3. $5 - 9 \cdot 4 + 6$

4. $14 + 8 \cdot 2 \div 4$

Order of Operations Review (Day 2)

Learning Intentions - I understand the order of operations and the reason such rules are necessary in math.

Success Criteria - I can apply the order of operations and accurately simplify a given expression.

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Homework Questions?

What is order of operations?

What do we use to remember it?

How do we solve a problem with order of operations?

Examples: **Complete each problem on your own. When you have finished, compare your answers to your partner's.**

1. $6^2 + 5 - 12 \div 4$

2. $(6 + (2 + 1))^2 \div 3 - 14$

3. $7(16 - 2^3)$

4. $90 \div [(82 - 77) \cdot 9]$

More Practice:

1. $[(3 + 7) \div 5] \cdot 2$
2. $[3 + (4 + 6)^2]$
3. $(4 + 3) - (8 + 1)$
4. $2 + 36 \div 4$
5. $16 + 8 \div 4 - 2$
6. $10 \div 5 + 3 \cdot 2$
7. $4(2 + 3) - 18$

CLASSWORK/HOMEWORK

CHOOSE ONE TO COMPLETE (due Monday):

- Order of operations Coloring Worksheet
- Daffynition Decoder

When you are finished, please complete the student survey on a seperate piece of paper (due Wednesday)