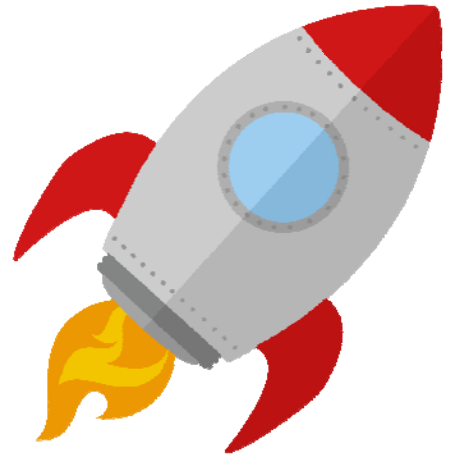


Name _____

Date _____

PEMDAS Simple STEP BY STEP LESSON

Solve: $(8 \div 2) \times 6 - 4 + 9$



When you are getting dressed to confront cold weather, you will always get dressed in a specific order to stay as warm as possible.

We would get dressed in this order:

1. Thermal shirt and pants
2. Snow pants
3. Gloves
4. Jacket
5. Scarf
6. Hat
7. Boots

You wouldn't put your boots on first otherwise you couldn't get your thermal pants or snow pants on.



P Parentheses and Brackets
E Exponents or Roots
M Multiply
A Addition
S Subtraction

The same concept applies to math. When confronted with problems that have multiple operations (addition, division, multiplication, or subtraction) with can process the problem with the help of the acronym (PEMDAS).

Left
always → Right

D
Division

If you have to choose between these operations, process them left to right.

$$(8 \div 2) \times 6 - 4 + 9$$

Using PEMDAS we would process this problem in this order:

$$(8 \div 2) \times 6 - 4 + 9$$

See it in action next page.



Name _____

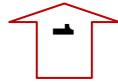
Date _____

PEMDAS Simple STEP BY STEP LESSON Continued

Completed problem:

Step 1) **Parentheses** $(8 \div 2) \times 6 - 4 + 9$

$$(8 \div 2) = 4$$



Step 2) There are no exponents or roots, so we skip E.

Step 3) **Multiplication** $4 \times 6 - 4 + 9$

$$4 \times 6 = 24$$



Step 4) **Addition** $24 - 4 + 9$

$$4 + 9 = 13$$



Step 5) **Subtraction** $24 - 13$

$$24 - 13 = 11$$



11 is your final answer.

