

Math 9 Section 1.5 – Order of Operations

Homework: Section 1.5 on Pg. 27; 1-4 left, 6all, 8, 9– Answers on Pg. 363

When we complete math calculations, the order that we do our steps is important. Otherwise, we won't agree on what the answer is.

Adding first

$$4 + 5 \cdot 2$$

OR

Multiplying first

$$4 + 5 \cdot 2$$

We use an acronym to help us remember the order of operations when we do math questions:

Here are the rules that go with the acronym

1. Do all calculations inside _____ first. When you have _____ inside other _____, start with the _____ furthest inside, then work out.
2. Simplify the inside of all _____, then evaluate the _____
3. Evaluate all _____
4. Do all the _____ and _____ from left to right
5. Do all _____ and _____ from left to right

For example

$$7^2 + 100 \div 10$$

$$(4^2 - 6)(3 - 9)$$

$$(4 \cdot 2^2 - 10)^2$$

$$\frac{5(4) + 6}{7 - (3 \cdot -2)}$$

$$3 \left(\frac{4^2}{2} - (5 + 3 \cdot (-7)) \right)$$