

## Unit 1 Discussion Example – Post 1: Initial Thread

### Order of Operations: “Socks Then Shoes” OR “Shoes Then Socks”?

a) Descriptions of the order of operations will vary. Make sure to use your own words.

b) My current profession is a swim coach. An example of an order of operations for swim coaching can be seen in how one swims a race.

- First, the swimmer needs to get up on the race blocks.
- Second, they will dive into the pool when the starter gun goes off (and the clock starts).
- Third, they will swim the designated stroke.
- Fourth, they will flip at the end of the pool (if the distance requires it).
- Fifth, they will swim the designated stroke until end of race.
- Lastly, they need to finish the race (and the race clock) by touching the touchpad.

c) You can create any kind of math expression. Please make sure to include addition, subtraction, multiplication, division, exponents, and at least one set of parentheses.

$$1 + (2 \times 3) - \frac{4}{5^2}$$

I will solve this correctly, showing each step along the way:

$$\begin{aligned} &1 + (2 \times 3) - \frac{4}{5^2} \\ &= 1 + (6) - \frac{4}{5^2} \\ &= 1 + 6 - \frac{4}{25} \\ &= 1 + 6 - 0.16 \\ &= 7 - 0.16 \\ &= 6.84 \end{aligned}$$

Note: I verified the accuracy by copying the expression  $1 + (2 \times 3) - 4/5^2$  and pasting it into Google’s search bar. (Google has a built-in calculator.)