

Order of Operations - Competencies

Name:

Order of Operations	
BEDMAS	
B	Brackets, ()
E	Exponents, a^n
D	Division or Multiplication (Left to right)
M	
A	Addition or Subtraction (Left to Right)
S	

Reasoning and Analyzing: Use reasoning and logic to explore, analyze, and apply mathematical ideas

Your friend is struggling with Order of Operations. They believe that they can just solve the equation from LEFT to RIGHT, without having to follow BEDMAS. Come up with a question that would clearly not work, if you just solved it from left to right, and you didn't do BEDMAS. Write the question below, and explain why it wouldn't work to solve it without BEDMAS:

Equation: _____

Explain: _____

Reasoning and Analyzing: Use reasoning and logic to explore, analyze, and apply mathematical ideas

Your friend is relentless. They simply don't want to listen to you. Come up with a question that involves at least 7 different operations, that actually works, from left to right, "without following BEDMAS". Explain how you came up the question, and why it actually works from left to right.

Connecting and Reflecting: reflect on mathematical thinking

Which question would you prefer to answer? Why is that? Explain.

Question A: $6 \div 2 + 5 \times 7 - 4 + 1 + 2 - 3 =$

Question B: $2^2 + 3^3 \times (2 + 1) =$

Reasoning and Analyzing: Estimate Reasonably

Do not calculate – estimate. What is a reasonable estimate for: $2^5 \times 3^4 + 200 =$ _____

Communicating and Representing: Explain and justify mathematical ideas and decisions

Explain how you came up with your estimate. What strategies did you use?

