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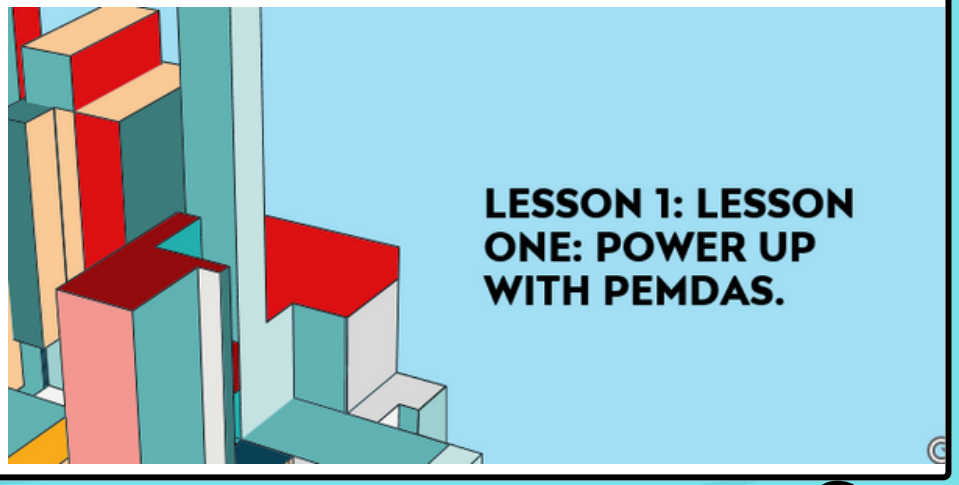
PEMDAS NOTES

The best notes are the ones that make sense to YOU! Don't be afraid to personalize your system and make it work. Capture each step, but don't just copy blindly. Think like a detective! ♀ Are there any moves that seem suspicious? Jot down your questions in the note section - we'll crack the code together later!



LEARNING OBJECTIVES

Define PEMDAS
Apply PEMDAS to solve math problems
Explain why using PEMDAS is important

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EXAMPLES

Learning tip: Understanding comes from doing! Don't just watch the examples being solved, actively work through them yourself.

EXAMPLE 1: $3 \times (2 + 4)^2$

- Following PEMDAS, we first solve what's inside the parentheses: (2 + 4) = 6
- Now we have: 3 x 6 ^ 2
- Next, we tackle the exponent: 6 ^ 2 = 36
- Finally, we perform the multiplication: 3 x 36 = 108
- The correct answer is 108.

Learning tip: Try working out the problem on your own before watching the video.

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EXAMPLE 2: 81 / [(5 X 2) – 1]

- PEMDAS tells us to start with the inner most grouping symbol.
- We solve the multiplication inside the parentheses first: 5 x 2 = 1
- Then, we subtract 1 from 10 to get 9
- Finally, we divide 81 by 9 to get 9

Learning tip: Try working out the problem on your own before watching the video.

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EXAMPLE 3: 10 + (4 + 2) ÷ 3

- **First, do what is inside the parentheses**: We add four and two to get 6.
- Then, Perform the division: 6/3 = 2
- Finally, we add 10 and 2 to get 12.

Learning tip: Try working out the problem on your own before watching the video.

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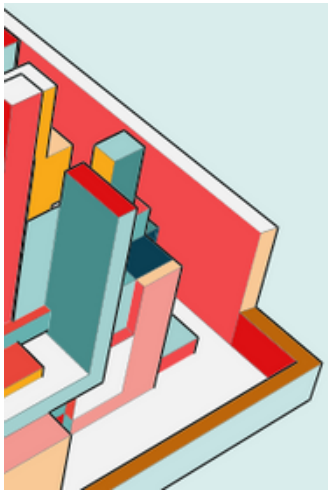

REVIEW

Remembering what you just learned.

REVIEW QUESTIONS

- Explain PEMDAS?
- When an expression has multiplication or division what operations are completed first?
- When an expression has addition or subtraction what operation are completed first?
- When there are grouping symbols inside of grouping symbols (like parentheses within brackets), where do you start?

Learning tip: Answer the questions before checking the answers.

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