

THE 4 BASIC OPERATIONS

#1. Tonsillectomy

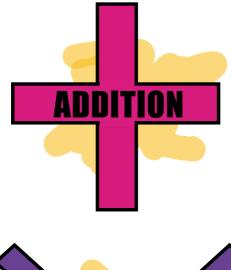
#2. Appendectomy

#3. Arthroscopy

#4. Rhinoplasty

Note: This is just a really bad joke, do not copy this into your notes.













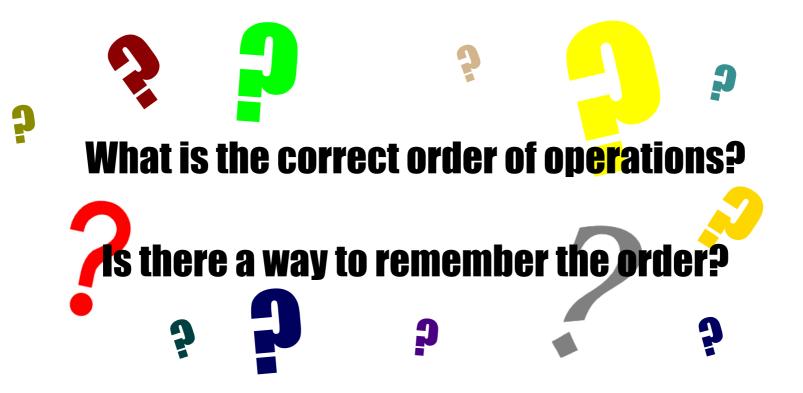
ex1) Simplify: $36 + 8 \div 4 \cdot 2 + 0 \cdot 8 - 7 \cdot 5$

We must all agree to perform operations in exactly the same order. Otherwise, we would all get different answers.

 $36 + 2 \cdot 2 + 0 \cdot 8 - 7 \cdot 5$ 36 + 4 + 0.8 - 7.536 + 4 + 0 - 7536 + 4 + 0 - 3540 + 0 - 3540 - 35 _____



We all agree to perform operations in the same order so that we all get the same answer to a math problem.





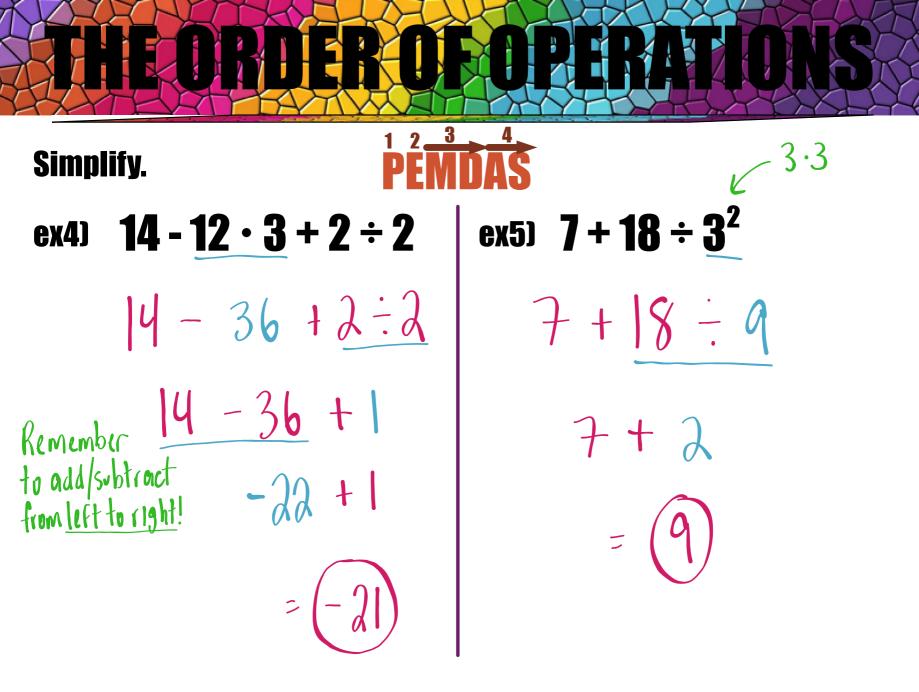


Parenthesis Exponents Multiply ivide hh Subtract

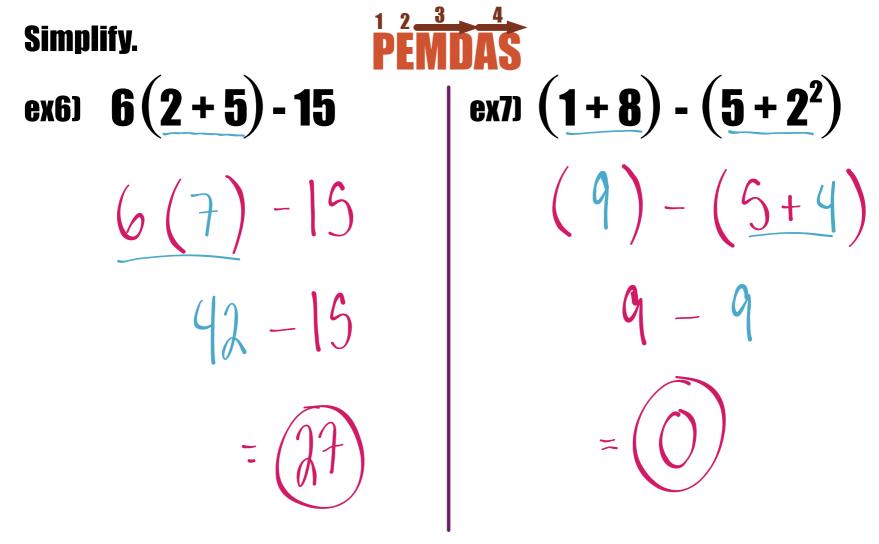


There are only 4 steps. Multiply/Divide together from left to right. Add/Subtract together from left to right. 1 2 3 4

<u>3</u> Simplify. ex2] $8 \div 2(2+2)$ $6 \div 2(1+2)$ ex3] $6 \div 2(3)$ 8 ÷ 2(4) Remember to multiply and divide from 4 (4) 3(3) left toright! 2









Grouping symbols force multiple numbers to behave as a single number.

Parenthesis () Brackets []

Braces { } Absolute Value

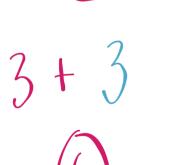
Big Division Bar $\frac{1+2}{6-3}$

When several grouping symbols are used together, always work from the inside out.



Simplify. ex8) $3 + [36 \div (17 - 5)]$

3 + [36 - (12)]



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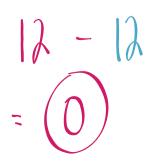




Simplify. ex9) **12 - [3(7+3^2) \div 4]**



 $|2 - [3(7+9) \div 4]$ $|2 - [3(16) \div 4]$ 12 - [48 - 4]





Simplify.



ex10) $\left\{ 40 - \left[3 \left(\frac{2}{2} + 2^2 \right) \right] \cdot 2 \right\} + 1$ $\{40 - [3(2+4)] \cdot 2 \} + [$ $\{40 - (3(6)) - 2\} + 1$ 540-18-23+1 { 40 - 36 } +1 4 + = (5)



