

Topic: order of operations

Objective: use order of operations to simplify expressions

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P	
Parentheses and grouping	
E x p o n e n t	E
R o o t s	

L	R
M	D
Multiply	Divide
Add	Subtract
A	S
L	R

Example

① $17 - 5^2 \div (2+3)$ parentheses
 $17 - 5^2 \div 5$ exponents
 $17 - 25 \div 5$ divide
 $17 - 5$ subtract

12

② $36 - 2^3 \cdot 2$ exponents
 $36 - 8 \cdot 2$ multiply
 $36 - 16$ subtract

20

③ $27 \div 3 - 4 \cdot 2 + 7$ divide
 $9 - 4 \cdot 2 + 7$ multiply
 $9 - 8 + 7$ subtract
 $1 + 7$ add

8

④ $36 \div (4+5)$ *simplify the numerator
 $(12-4) \div 2$

$36 \div 9 = \frac{4}{4}$ *simplify denominator
 $(12-4) \div 2 = \frac{4}{4}$ *reduce the fraction
 18

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