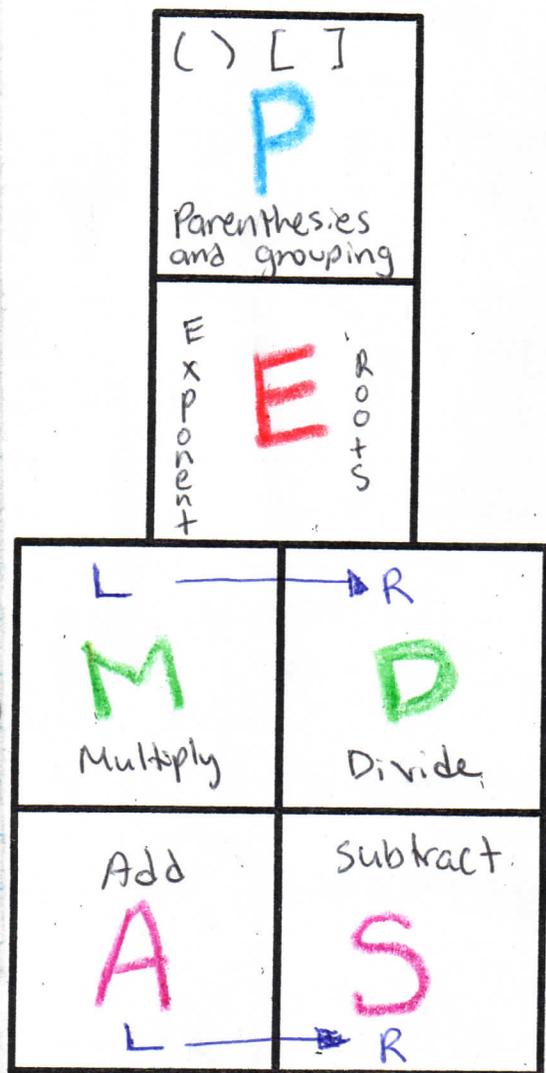


Topic: order of operations

Objective: use order of operations to simplify expressions



Example

$$\textcircled{1} \quad 17 - 5^2 \div (2+3)$$

parentheses

$$17 - 5^2 \div 5$$

exponents

$$17 - 25 \div 5$$

divide

$$17 - 5$$

subtract

$$\boxed{12}$$

$$\textcircled{2} \quad 36 - 2^3 \cdot 2$$

exponents

$$36 - 8 \cdot 2$$

multiply

$$36 - 16$$

subtract

$$\boxed{20}$$

$$\textcircled{3} \quad 27 \div 3 - 4 \cdot 2 + 7$$

divide

$$9 - 4 \cdot 2 + 7$$

multiply

$$9 - 8 + 7$$

subtract

$$1 + 7$$

add

$$\textcircled{4} \quad 36 \div (4+5)$$

* simplify the numerator

$$(12-4) \div 2$$

$$\frac{36 \div 9}{(12-4) \div 2} = \frac{4}{4}$$

* simplify denominator

$$\frac{18}{18} = 1$$

* reduce the fraction

$$\boxed{1}$$