

8/28 Order of Operations

ex) $12 + (20 - 4) \div 2^3$

① $12 + 16 \div 2^3$

② $12 + 16 \div 8$

③ $12 + 2$

④ 14

PEMDAS

① Parenthesis

② Exponents

③ Multiplication/Division

④ Addition/Subtraction

why? to simplify expression or equations

Vocabulary

Expression: math phrase that contains numbers (1, 3, 7), variables (x, y, z), and operators (+, -, x, ÷)

ex: $9 + 9 + 8$, $5 + 2 + 3$, $\sqrt{16}$, $5 \cdot 7$
 $12x$, $3x + 8$

Equation: two math expressions set equal to one another (= sign)

ex: $5 + 2 + 5 + 2 = 14$. $12x = 40 + 6$

$$3x + 2y = z, 5a + b = c + 3d$$

Practice

① $3(m-5) + m$

② $-6q + 7 - 2 + 4q$

③ $8 + (5-3)^4 \div 2$