

PEMDAS

P arentesis

You must follow order of operations when evaluating expressions.

E xponents

M ultiplication

D ivision

A ddition

S ubtraction

Rule 1: First perform any calculations inside parentheses.

Rule 2: Write all exponents in standard notation

Rule 3: Next perform all multiplications and divisions, working from left to right.

Rule 4: Lastly, perform all additions and subtractions, working from left to right.

As always, you must show all of your work. Your work should take the shape of the Superman symbol.



Examples:

$$2(3 + 4) - 3^2$$

$$10 + 4^2 \times 7 + (7 - 4)$$

When working with multiplication and division go left to right. Multiplication doesn't always come before division

Examples:

$$6 \div 2 \times 8$$

$$3 \times 4 \div 6 \times 9$$

When working with addition and subtraction go left to right. Addition doesn't always come before subtraction.

Examples:

$$6 - 2 + 5$$

$$12 - 1 + 4 - 6$$

Remember this even when working with very long expressions.

Examples:

$$12 \div (1 + 3) \times 5$$

$$15 - 3^2 + 8 - 2$$

These are more challenging. Give them a try. Be sure to check your answers with the completed notes.

$$7 + (5 + 10^2 \times 3) + 8 \div 2$$

$$(2 + 3^3 - 24 \div 3) \times 4$$