

Vocabulary

Numerical Expression - A combination of numbers and operation signs (+, -, x, or ÷).

Order of Operations - The rules that tell which operation to perform first when more than one operation is used.

Order of Operations

- 1.) Parentheses (Simply the expressions inside grouping symbols.)
- 2.) Exponents (Find the value of all powers.)
- 3.) Multiply or divide in order from left to right.
- 4.) Add or Subtract in order from left to right.

Guided Practice:

Find the value of each expression. Show your work. ☺

1.) $9 + 3 - 5$

\checkmark
 $12 - 5$
 \checkmark
7

2.) $(26 + 5) \times 2 - 15$

\checkmark
 $31 \times 2 - 15$
 \checkmark
 $62 - 15$
 \checkmark
47

3.) $5^2 + 8 \div 2$

$5 \cdot 5$
 \checkmark
 $25 + 8 \div 2$
 \checkmark
 $25 + 4$
 \checkmark
29

4.) Tickets to a play cost \$10 for members and \$24 for nonmembers. Write an expression to find the total cost of 4 nonmember tickets and 2 member tickets. Then, find the total cost.

$(4 \cdot 24) + (2 \cdot 10)$
 \checkmark \checkmark
 $96 + 20 =$ \$116

Partner Talk

Find the value of the following numerical expression.

$5 \cdot 5 \cdot 5$
 $5^3 - 12 \div 3$
 \checkmark
 $125 - 12 \div 3$
 \checkmark
 $125 - 4$
 \checkmark
121

Essential Question Why do we use the Order of Operations?
 so we perform the operations in the correct order

Rate Yourself - How well do you understand order of operations? Circle the image that applies.



and get the same answers