## Go-Math Lesson 1-12

Go Math Lesson 1.12

## Algebra - Grouping Symbols

## Learning Target:

I can evaluate (solve) numerical expressions using parenthesis, brackets and braces.

## order of operations

The order of operations is a rule that tells you the sequence to follow when you are performing operations in a mathematical expression.



## "GROUPINGS"

$\{2 x[6 x(4+3)]\}+7$
$\{2 \times[6 \times(4+3)]\}+7$
Step 1: Add $4+3$ Step 2: Multiply $6 \times 7$
Step 3: Multiply $2 \times 42$
Step 4: Add $84+7$

## Daily Math Do-Now

## Guiding question:

How many key math words can you recall for each operation?
In math, there are many ways to say the same thing.

## Practice:

## $6(34+8)$

"Six times the sum of 34 and 8 "
"Six multiplied by the sum of 34 and 8 " "The product of 6 and the sum of 34 and 8 "

## $21 \div(9-2)$

"The quotient of 21 and the difference of 9 and $2^{\prime \prime}$
"21 divided by 9 take away 2"


$32 \div(5+3)=$

## $32 \div 8$

Step 1: Write "PEMDAS" above the equation.

Step 2: Working left-toright, go through each letter performing the function in that order.

Step 3: Rewrite the existing variable underneath until it is completely solved.


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$\{7+[(22-4) \div 3]\} \times 5=$ $\{7+[18 \div 3]\} \times 5$ $\{7+6\} \times 5$
$13 \times 5$
65

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## DISCUSS:

Jeremiah followed these steps to evaluate the expression $150-(84+2) \div 2$
$84+2=86$
$150-86=64$
$64 \div 2=32$

Joshua looks at Jeremiah's work and says he made a mistake. He says he should have divided before he subtracted.

Who is correct?

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$71-(11+3)$
Value $=57$

$$
40+(18-8) \div 5
$$

Value $=52$

## Go-Math Lesson 1-12

Your tasks:

1. Complete Google Classroom Lesson 1.12 Check-in
2. Complete Think Central assignments!
3. Watch videos posted on the website
4. Complete IXL Skills for the week

You have a lot to do - Don't waste time!

