

Warmup:

1. The order of operations:

2. Evaluate the Expression
when $a=3$, $b=12$, and $c=5$

$$2(b \div a) + c$$

3. Evaluate $\frac{p}{3} + 7$
When $p = 27$

I. Evaluating Algebraic Expressions after Substitution.

Evaluate: $(a \div b \times 2)^2 + 6$ when $a=36$
and $b = 6$

4. The first step to
simplify an algebraic
expression is to
_____ the
values of the variables.

Evaluate $(b + c)^2 - a^2$ when $a=2$,
 $b=3$ and $c=4$

Evaluate $a(b + c) + b(a - c)$ when
 $a=5$, $b=3$ and $c=1$

5. Evaluate the expression if a=5 and b=3. $(a + b \times 2)^2 + 4$

6. Evaluate $\frac{b^2 - a^2}{b - a}$ when a=5 and b=8

II. Fill in a table

Variable: A letter used to represent a number not yet assigned.

The algebraic expression will have a different value based on the value of the variable. A table can show the relationship between the value of the variable and the value of the algebraic expression.

x	$3(x + 5)$	
0		
1		
2		
3		

7. Fill in the table for $3x+10$

x	$3x+10$	
0	$3(0)+10 =$	
1	$3(1)+10 =$	
2	$3(2)+10 =$	
3	$3(3)+10 =$	
4	$3(4)+10 =$	

8. Fill in the table for $8x + 2$

x	$8x+2$	
0	$8(0)+2 =$	
1	$8(1)+2 =$	
2	$8(2)+2 =$	
3	$8(3)+2 =$	
4	$8(4)+2 =$	

III. Practice

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