

Evaluating Expressions Worksheet 7th

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Part 1: Building a Foundation

What is an algebraic expression?
Hint: Think about what components make up an algebraic expression.
A) A combination of numbers and operations only
B) A combination of variables and operations only
C) A combination of numbers, variables, and operationsD) A combination of numbers and variables only
D) A combination of numbers and variables only
What is an algebraic expression?
Hint: Think about the components that make up an expression.
A) A combination of numbers and operations only
○ B) A combination of variables and operations only
C) A combination of numbers, variables, and operations
D) A combination of numbers and variables only
What is an algebraic expression?
A) A combination of numbers and operations only
B) A combination of variables and operations only
C) A combination of numbers, variables, and operations
O) A combination of numbers and variables only
Which of the following are components of an algebraic averagion?
Which of the following are components of an algebraic expression?
Hint: Consider the different parts that make up an expression.
A) Variables
B) Coefficients
C) Exponents



D) Constants
Which of the following are components of an algebraic expression?
Hint: Consider the elements that make up an expression.
A) Variables
B) Coefficients
C) Exponents
D) Constants
Which of the following are components of an algebraic expression?
A) Variables
B) Coefficients
C) Exponents
D) Constants
Explain the purpose of using variables in algebraic expressions.
Hint: Think about how variables help represent unknown values.
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Explain the purpose of using variables in algebraic expressions.
Hint: Think about how variables represent unknown values.



Explain the purpose of using variables in algebraic expressions.
List the steps in the order of operations (PEMDAS/BODMAS).
Hint: Remember the acronym that helps you recall the order.
1. What is the first step?
2. What is the second step?
3. What is the third step?
4. What is the fourth step?
What is the coefficient in the expression 5x + 3?
Hint: Identify the number that multiplies the variable.
○ A) 5
○ B) x
○ C) 3 ○ D) 3
○ D) 8
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○ B) x



○ C) 3 ○ D) 8
What is the coefficient in the expression $5x + 3$?
○ A) 5○ B) x○ C) 3○ D) 8
Part 2: Comprehension and Application
Why is it important to follow the order of operations when evaluating expressions?
Hint: Consider the consequences of not following the order.
 A) To ensure the expression looks neat B) To obtain the correct result C) To make the expression longer D) To avoid using variables
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Hint: Look for expressions that follow the rules of simplification.

Which of the following expressions are simplified correctly?

\Box A) 3x + 2x = 5x
☐ B) 4y - y = 3y
\Box C) 2(a + b) = 2a + 2 b
\Box D) 6z + 3 = 9z
Which of the following expressions are simplified correctly?
Hint: Look for expressions that follow the rules of simplification.
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Describe how you would substitute a value into the expression 2x + 5.
Hint: Think about the steps you would take to replace the variable.

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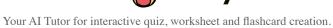
Hint: Think about replacing the variable with a number.



	//
Describe how you would substitute a value into the expression	2x + 5.
	//
If $x = 3$, what is the value of the expression $4x - 7$?	
Hint: Substitute the value of x into the expression and calculate.	
○ A) 5	
○ B) 7○ C) 12	
○ D) 17	
C = 7 · · ·	
If $x = 3$, what is the value of the expression $4x - 7$?	
Hint: Substitute the value of x into the expression.	
○ A) 5	
○ B) 7	
○ C) 12	
○ D) 17	
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○ A) 5	
○ B) 7	
○ C) 12	

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Evaluate the expression 3a + 2 b when a = 2 and b = 4.
Hint: Substitute the values of a and b into the expression.
☐ A) 10
☐ B) 14
□ C) 16
□ D) 18
Evaluate the expression 3a + 2 b when a = 2 and b = 4.
Hint: Substitute the values of a and b into the expression.
☐ A) 10
☐ B) 14
☐ C) 16
□ D) 18
Evaluate the expression 3a + 2 b when a = 2 and b = 4.
☐ A) 10
☐ B) 14
☐ C) 16
□ D) 18
Part 3: Analysis, Evaluation, and Creation
Which of the following correctly shows the distributative property?
Hint: Recall the definition of the distributative property.
\bigcirc A) a(b + c) = ab + ac
\bigcirc B) $a(b + c) = a + b + c$
$\bigcirc C) a(b+c) = ab+bc$
\bigcirc D) a(b + c) = ac + bc
Which of the following correctly shows the distributative property?
Hint: Think about how multiplication distributes over addition.
\bigcirc A) a(b + c) = ab + ac

\bigcirc B) a(b + c) = a + b + c
\bigcirc C) a(b + c) = ab + bc
\bigcirc D) a(b + c) = ac + bc
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\bigcirc D) a(b + c) = ac + bc
dentify the like terms in the expression $4x + 3y - 2x + 5$.
Hint: Look for terms that have the same variable part.
A) 4x and -2x
☐ B) 3y and 5
C) 4x and 3y
D) -2x and 5
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A) 4x and -2x
☐ B) 3y and 5
C) 4x and 3y
D) -2x and 5

Analyze the expression 2(x + 3) - 4x and explain the steps to simplify it.

Hint: Think about how to distribute and combine like terms.



Analyze the expression $2(x + 3) - 4x$ and explain the steps to simplify it.	
Hint: Consider distributing and combining like terms.	
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Analyze the expression $2(x + 3) - 4x$ and explain the steps to simplify it.	
	//
If the expression $5x - 3 = 2x + 9$ is true, what is the value of x?	
Hint: Isolate x on one side of the equation.	
○ A) 3	
○ B) 4	
○ C) 5 ○ D) 6	
If the expression $5x - 3 = 2x + 9$ is true, what is the value of x?	
Hint: Isolate x on one side of the equation.	
○ A) 3	



○ B) 4○ C) 5○ D) 6
If the expression $5x - 3 = 2x + 9$ is true, what is the value of x?
○ A) 3○ B) 4○ C) 5○ D) 6
Consider the expression $2x + 3y = 12$. Which of the following pairs (x, y) satisfy the equation?
Hint: Substitute the pairs into the equation to check if they hold true. A) (3, 2) B) (2, 3) C) (4, 0) D) (0, 4)
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Hint: Substitute the pairs into the equation to check.
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Create an algebraic expression that represents the total cost (C) of buying x apples at \$2 each and y bananas at \$1.50 each.

Hint: Think about how to express the total cost in terms of x and y.



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