A. Bay	
Algebra	•

Name:

Simplifying Expressions

•	Expressions (do/do not) have	egual	Signs	so you cannot	80/Ve	them. You
	can only Ivalua	ate fors	simplification them.		,	

When you _ IValuate an expression you _ cambine use terms

A variable is a Symbol (OR a Letter) used tok an unknown $\sqrt{2000}$. This expression has 4variables.

a, c, v, 9

12a + 5c- 9v - 10 + g

A constant is A RPOLINIMORR

___constant,__0. This expression has ___

A term is a single number or variable Terms are separated by + OR -

This expression has $\frac{5}{120}$ terms.

coefficients in this expression.

You try!

$$-6x+2+7f+7+1.4g$$

Terms? (how many groups)	5
Coefficients? (a number multiplied by a variable)	3
Constants? (a number that is by itself)	2
Variables? (symbol or Letter)	3

$$9+7x-4y-3-8j+\frac{1}{2}x$$

Terms?	
(how many groups)	6
Coefficients?	4
(a number multiplied by a variable)	4
Constants?	
(a number that is by itself)	2
Variables?	2
(symbol or Letter)	3

x+3x-2-y

Terms? (how many groups)	4
Coefficients? (a number multiplied by a variable)	3
Constants? (a number that is by itself)	
Variables? (symbol or Letter)	2



Name: Date: _____

Partner Practice: Identify all coefficients, constants, terms, and variables in the expressions below.

1) 1+2x-3x+4-5x

Terms: 5

Coefficients: 2, -3, -5

Constants: 1, 4

Variables: x

$$x+y+z+u$$

Terms: 4

Coefficients:

Constants: (

Variables: χ, y, τ, U

5)
$$-x^2+2+x^7-9$$

Terms: 4

Coefficients: - |

Constants: 2,-9

Variables: χ^2

$\frac{1}{2}$ -6+8-10x+12-x

Terms: 5

Coefficients: -) (), -|

Constants: -U, 8, 12

Variables: $\sqrt{4x+1y-7x}$

Terms: 3

Coefficients: 4, 1, -7

Constants:

Variables: χ 6) $4x-9+2-1x+7x^3-1$

Terms: ()

Coefficients: 4, -1, 7

Constants: -9, 2, -1

Variables: X, X

Part Two:



- 2 cats + 3 cats = 5 cats
- 3 cats + 5 dogs = _____dogs



- 7 dimes + 10 pencils = ____ dimes
- 2 cars + 4 cars = _____cars

Main Idea → Combining Like Terms

> Like terms are terms with the same variables and powers

1. (1) + 6x - x - x + 3x - 4 - χ^2 + 3 χ^2 + χ - χ χ

You Try!

1)
$$-g+4-5g+7-12$$
 2) $y+6-1.5(-y+17-5y)$ 3) $2m+3y-2y-m-m$
 $-y-2y-1$ $-5y+2y-1$ 5) $y^2+2y^2-10y+1-(-5y)-y^2$ 6) $4y+2+9y^2-11+2y+18$
 $-10y^2+5y+12$ 2) $y+6-1.5(-y+17-5y)$ 6) $4y+2+9y^2-11+2y+18$



A. Bay Algebra 1	order are
Algebra 1	equal

Name:		
Date:		

7. An equilateral triangle has a perimeter of 6x + 3 centimeters. Write an expression that correctly represents the length of one side of the triangle.



$$\frac{6x+3}{3} = \frac{6x}{3} + \frac{3}{3} = \frac{6x+3}{3} = |2x+1|$$

8. Jayden walked a total of 12x+5r-8 miles on Monday and Tuesday. If he walked 7x-10r miles on Monday, how many miles did he walk on Tuesday?

9. A stop sign is in the shape of an octagon. Find the perimeter if each side is 2a + 1 units.

$$2a+1 + 2a+1 +$$

10. Write the expression for the perimeter of a rectangle with a length that is 4 centimeters longer than three times its width.

$$w = \frac{3w+4}{3w+4} = \frac{3w+4+3w+4+w+w}{8w+8}$$

Homework:

