

Name _____

FOUNDATIONS OF ALGEBRA



Match each of the following vocabulary words with the correct definition.

____ Variable	A. statement that two math expressions are equal
____ Expression	B. math phrase consisting of numbers, variables, & operations
____ Equation	C. terms that contain the same variables, with corresponding variables having the same powers
____ Like Terms	D. a letter or symbol used to represent an unknown

Part 1: Like Terms

1. $x + 6x + 8x =$ _____	2. $-2x + 8 - 1 - 7x =$ _____
3. $4 + x + 2 + 5x =$ _____	4. $a^2 + 2a^2 - 5a =$ _____
5. $10xy - xy + 2y =$ _____	6. $w + 1 =$ _____
7. $\frac{1}{2}x - 5 - 3y - \frac{7}{2}x + 8y - 8 =$ _____	8. $-2x^2 - 6 + 9y - 3x - 9y =$ _____

Part 2: Distributive Property

9. $2(x + 3) - 5x + 7 =$ _____	10. $12 - \frac{1}{2}(2y - 6) + 4y =$ _____
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Part 3: Solving Two-Step Equations

11. $4x + 8 = 16$

$x = \underline{\hspace{2cm}}$

12. $6 - 3c = -15$

$c = \underline{\hspace{2cm}}$

13. $12 = 0.4y - 7$

$y = \underline{\hspace{2cm}}$

14. $\frac{3}{4}a + 16 = 10$

$a = \underline{\hspace{2cm}}$