Objective:

Vocabulary

	Definition	Examples
Term		
Constant		
Like Terms		
Coefficient		
Simplest Form (algebraic expression)		

Example 1: Identify the terms and like terms in each expression.

a) $9x - 2 + 7 - x$

b) $2r^2 + 7r - r^2 - 9$

Example 2: Name the coefficients, like terms, and constants in: $6 + s - 42 - 5s + 8s^2$

        Coefficients: _____

        Like Terms: _____

        Constants: _____

Example 3: Write the expression from Example 2 in **descending order**.

$$6 + s - 42 - 5s + 8s^2$$

Example 4: Use the following expression: $2x^3 - 9 - 4x^2 + 18x^2 + 3x + 6x^3 - 7x + 11$

    a) Name the coefficients, like terms, and constants in the following:

        Coefficients: _____

        Like Terms: _____

        Constants: _____

    b) Simplify by combining the like terms and writing in **descending order**.

Example 5: Simplify:

a) $7x + y - 2x - 7$ b) $9 + 4f + 3 + 2f$ c) $2b + b - 4$

d) $(7 - 3x)5 + 20x$ e) $3x^2 + x + 15 - 7x^2 + 9x^3 - 42 - 13x - 8x$

Example 6: Simplify. (Make sure your answer is in **descending order**.)

$20d - 5(4d + 11 - 3) + 18 - 34d + 16d^2$

Example 7: An exercise mat is 3 times as long as it is wide.

a. Write an expression in simplest form for the perimeter of the mat.

b. Find the perimeter when the width is 3ft.

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