

Day 6_ Teacher Model

For each algebraic expression, identify the number of terms. Then list the coefficients and any constant terms.

Expression	$6a + 3$	$6a - 3$	$0.2x - y + 8z$	$\frac{1}{2}n$
Number of Terms				
Coefficient(s)				
Constant(s)				

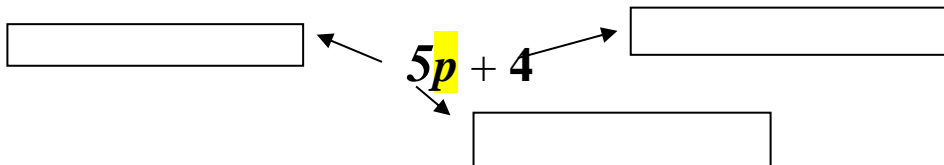
Academic Vocabulary

Match the vocabulary to the correct definition. Write the answer in the blank on the left side of the paper.

- | | | |
|-------|-------------------------|---|
| _____ | 1. Algebraic Expression | A. Each part of an expression separated by + or -. |
| _____ | 2. Coefficient | B. A number that stands by itself. |
| _____ | 3. Constant | C. A number that does not stand by itself. It is attached to the variable. |
| _____ | 4. Term | D. A letter that stands for a particular numerical value. |
| _____ | 5. Variable | E. A number sentence without an equal sign; has at least one term and one operation; algebraic expressions contain one or more variables. |

Model_

Example #1: Fill in the blank boxes the correct academic vocabulary.



Directions: For the examples below state the number of terms and list the coefficients, variables, and constants.

Example #2	Example #3	Example #4
$5p + 4$	$\frac{w}{7} + 6w^3$	$9k^4 + k - 11$
Number of terms:	Number of terms:	Number of terms:
List the terms:	List the terms:	List the terms:
Coefficients:	Coefficients:	Coefficients:
Variables :	Variables :	Variables :
Constants :	Constants :	Constants :

CFU_Think-Pair-Share

Identify the number of terms, the coefficients, and the constant term of the expressions below.

1. $7p - 6pc + 3c - 2$

Number of terms: _____

Coefficients: _____

Constant terms: _____

2. $8 + 4ab - 5b$

Number of terms: _____

Coefficients: _____

Constant terms: _____

Guided Practice_

Directions: For the examples below state the number of terms and list the coefficients, variables, and constants.

Example #1	Example #2	Example #3
$7 - 8m$	$x^2 - 2x + 3$	$11x$
Number of terms:	Number of terms:	Number of terms:
List the terms:	List the terms:	List the terms:
Coefficients:	Coefficients:	Coefficients:
Variables :	Variables :	Variables :
Constants :	Constants :	Constants :
Example #4	Example #5	Example #6
6	$3c - \frac{5}{7}c^6$	$3v + \frac{x}{4}x - \frac{1}{2}$
Number of terms:	Number of terms:	Number of terms:
List the terms:	List the terms:	List the terms:
Coefficients:	Coefficients:	Coefficients:
Variables :	Variables :	Variables :
Constants :	Constants :	Constants :

Model_

1) What is the coefficient for m^4 in the following expression $7 - 8g + m^4$?

Answer: _____

2) What is the sum of the coefficients in the expression $3d + 7f + k^2$?

Answer: _____

3) What is the sum of the coefficients in the expression $9h + 11p^3 - 5p$?

Answer: _____

4) What is the sum of the coefficients in the expression $9h + 11p^3 - 5p$?

Answer: _____

5) What is the sum of the coefficients in the expression $9 + 11p^3 - 5$?

Answer: _____

Check for Understanding _

Identifying Terms, Coefficients, and Constants

For each expression, fill in the table by telling how many terms there are and by listing the coefficients and the constants.

1.) $x + 1$

2.) $2x^2 + x - 3$

3.) 4

4.) $10x^3yz$

5.) $3x - 6$

6.) $7y^3 - 4y^2 + 2$

7.) -10

8.) $a + 2b + 4c + d$

9.) $r^2 + 11r$

<u>Problem #</u>	<u># of Terms</u>	<u>Coefficients</u>	<u>Constants</u>
1			
2			
3			
4			
5			
6			
7			
8			
9			