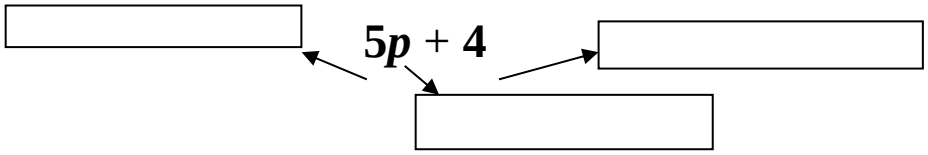
Name: _____ Date: _____
Ms. Napolitano CCSS:_____

W2 D1 Idenifying Terms, constants, coefficients, variables, and exponents.

Independent Practice: ***Answer the following questions below independently.***

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 #3	*Example #4*	Example #5
5p + 4	**$7w + w^3$**	**$9k^4 + 8k - 11$**
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 :

Example #6: Determine the sum of each of the examples coefficients. Which algebraic expression has the greatest value the sum of coefficients?

Example #3	*Example #4*	Example #5
5p + 4	**$7w + w^3$**	**$9k^4 + 8k - 11$**
Sum:	Sum:	Sum:

The ***algebraic expression*** _____has the greatest sum of coefficients.

Example #7: Write each expression using exponents

$m \bullet m \bullet m \bullet m$ Answer: _____	$f \bullet g \bullet g \bullet g$ Answer: _____	$x \bullet x \bullet x \bullet x \bullet x$ Answer: _____
$9 \cdot k \cdot k \cdot k \cdot k \cdot k$ Answer: _____	$7 \bullet d \bullet d \bullet d$ Answer: _____	$7.4 \bullet x \bullet x \bullet y \bullet y$ Answer: _____

Example #7: Answer the following questions from your textbook. Show all of your work in your classwork section of your binder.
Level A- Textbook pages 115-116 #s 8-14, 16-22
Level B- Textbook pages 115-116 #s 1, 8-14, 16-23
Level C- Textbook pages 115-116 #s 1, 8-24

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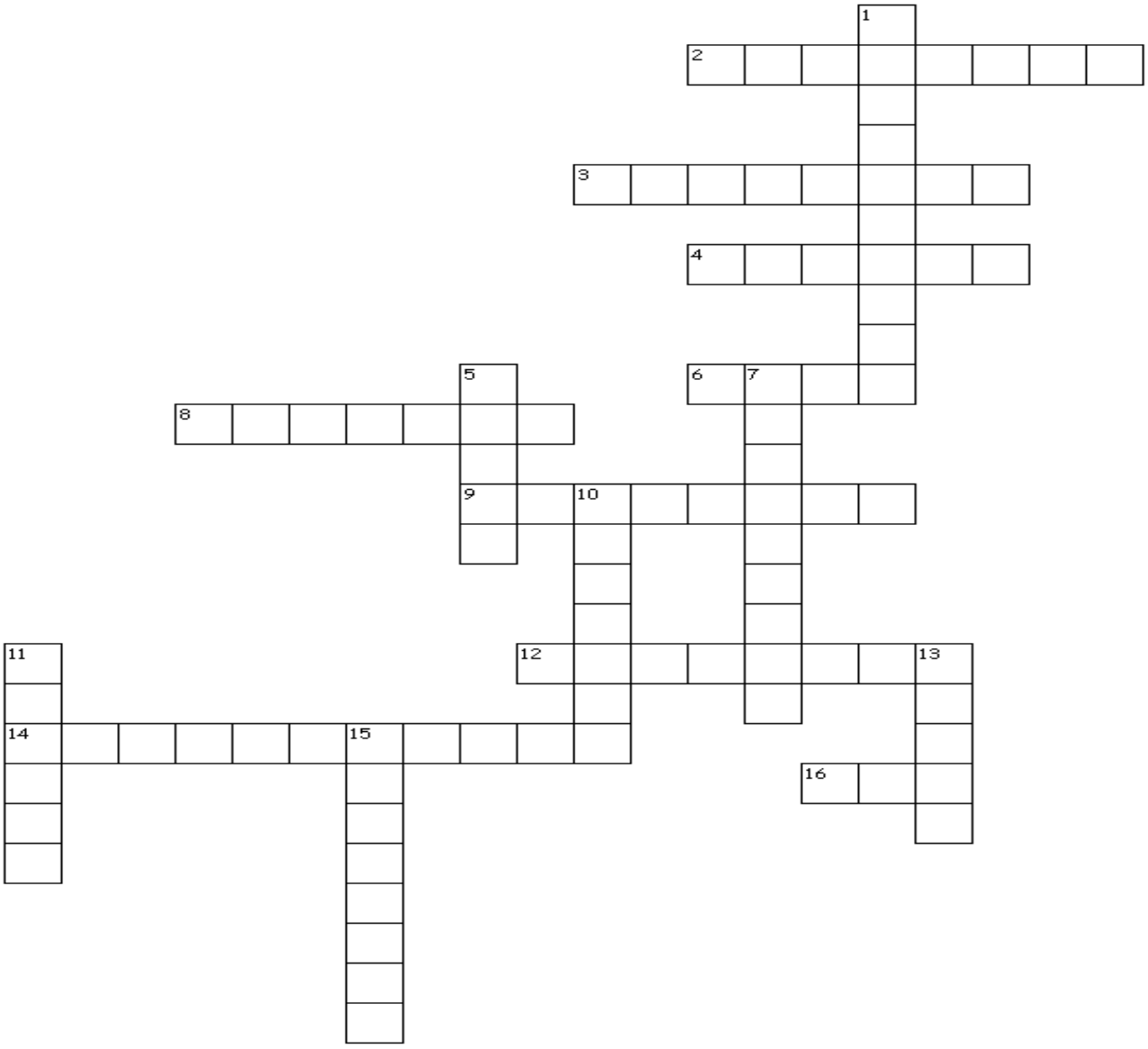
W2 D1_ Homework_ Identifying Terms, constants, coefficients, variables, and exponents.

Expressions Vocabulary



Across

2. a symbol that represents a number
3. the number being divided
4. a number being added in an addition problem
6.
8. the number another number is being divided by
9. The number that indicates the number of times the base is used as a factor
12. the answer to a division problem
14. numerical factor of a term
16. the answer to an addition problem

Down

1. the answer to a subtraction problem
5. a product of repeated factors
7. an expression that may contain numbers, operations, and one or more symbols
10. the answer to a multiplication problem
11. a number that is being multiplied
13. parts of an algebraic expression
15. a term without a variable

Directions: For the examples below state the number of terms and list the coefficients, variables, and constants.			
1. $\frac{a}{4}+\frac{1}{4}$	**2. 4c-10**	**3. $4t+6v^2$**	**4. $15x+4-x^2$**
Number of terms:	Number of terms:	Number of terms:	Number of terms:
List the terms:	List the terms:	List the terms:	List the terms:
Coefficients:	Coefficients:	Coefficients:	Coefficients:
Variables :	Variables :	Variables :	Variables :
Constants :	Constants :	Constants :	Constants :
5. $(3q)+7q^2$	**6. 12y + (20÷4)**	**7. 64q + (20 + q)**	**8. 9b- 4a + c**
Number of terms:	Number of terms:	Number of terms:	Number of terms:
List the terms:	List the terms:	List the terms:	List the terms:
Coefficients:	Coefficients:	Coefficients:	Coefficients:
Variables :	Variables :	Variables :	Variables :
Constants :	Constants :	Constants :	Constants :
9. 10x+ 5y	**10. 2^3+ 4 (7-5)**	**11. x-5**	**12. a^2-6a+ 75 + 8t**
Number of terms:	Number of terms:	Number of terms:	Number of terms:
List the terms:	List the terms:	List the terms:	List the terms:
Coefficients:	Coefficients:	Coefficients:	Coefficients:
Variables :	Variables :	Variables :	Variables :
Constants :	Constants :	Constants :	Constants :
13. 2^2+ C	**14. 9b - a + $\frac{c}{7}$**	**15. 6.4w +18.01**	**16. $3r^2$ +4r +8**
Number of terms:	Number of terms:	Number of terms:	Number of terms:
List the terms:	List the terms:	List the terms:	List the terms:
Coefficients:	Coefficients:	Coefficients:	Coefficients:
Variables :	Variables :	Variables :	Variables :
Constants :	Constants :	Constants :	Constants :

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W2 D1_ Exit Ticket_

Example #1: State the number of terms and list the coefficients, variables, and constants.

$3p^2 + 7$
Number of terms:
List the terms:
Coefficients:
Variables :
Constants :

Example #2: Jennifer was asked to write the algebraic expression 8 x 8 x 8 x 8 x 8 x 8 using exponents. Jennifer's wrote down 6^8. Is Jennifer correct? Justify your answer.

_____
_____
_____

Example #3: Kennedy and Courtney are having a disagreement about how many terms $\frac{7x}{9}$ has. Kennedy says that it is one term, but Courtney says its two terms. Who is correct? Justify your answer.

_____
_____
_____

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W2 D1_ Exit Ticket_

Example #1: State the number of terms and list the coefficients, variables, and constants.

$3p^2 + 7$
Number of terms:
List the terms:
Coefficients:
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Constants :

Example #2: Jennifer was asked to write the algebraic expression 8 x 8 x 8 x 8 x 8 x 8 using exponents. Jennifer's wrote down 6^8. Is Jennifer correct? Justify your answer.

_____
_____
_____

Example #3: Kennedy and Courtney are having a disagreement about how many terms $\frac{7x}{9}$ has. Kennedy says that it is one term, but Courtney says its two terms. Who is correct? Justify your answer.

_____
_____
_____