

Name _____
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Date _____
8R Period _____

Combining Like Terms

I. Terms of an expression

A) Definition: _____ are parts of a mathematical expression separated by _____ or _____ signs.

Example: $3x + 5y - 8$ has _____ terms.

B) Examples: How many terms do the following expressions have?

1) $4x + 2y$

2) $6x + 3y - 8z + 6$

3) $7a + 6b - 3y$

II. Coefficients

A) Definition: A _____ is a _____ factor. It is written in _____ of the variable (letter).

Example: $6x$ has a coefficient of _____.

** If there is no number in front of the variable, the coefficient is understood to be _____.

B) Examples: What are the coefficients of the following terms?

1) $4x$

2) $-3z$

3) y

III. Constant

A) Definition: A constant is a number _____ a _____.

B) Examples: 7, -3, 10, 2 and -4 are all examples of _____.

III. Like terms

A) Definition:

B) Examples: Are the following like terms?

1) $2y$ and $-7y$

2) $8x^2$ and $8y^2$

3) $4a$ and a^3

4) -5 and 5

IV. Combining like terms:

A) Steps:

1)

2)

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B) Examples:

1) $3x + 8x =$

2) $10y^3 - 5y^3 =$

3) $2c^4 + 7c^4 =$

4) $5a^4 + 2a^5 =$

5) $3x + x + 2x =$