

Name: _____ Pd: 3 Date: 2/13/18

AM 7

CH 7.2 - Simplifying Algebraic Expression (Page 299)

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28-48e
75-77all

ESSENTIAL QUESTION:

HOW can you use numbers and symbols to represent mathematical ideas?

Success Criteria:

1. I can simplify algebraic expressions.

SMPs:

1. Persevere with Problems
3. Construct Viable Arguments
4. Model with Mathematics
7. Make Use of Structure

CCSS:

- 7.EE.1
- 7.EE.2

Vocabulary:

- Term
- Coefficient
- Like Terms
- Constant
- Simplest Form

IDENTIFYING PARTS OF AN EXPRESSION

$$3x + 7 + -x - 2$$

EXAMPLES

Identify the terms, like terms, coefficients, and constants in the algebraic expressions below.

1. $9y - 4 - 11y + 7$

Terms:

Like Terms:

Coefficients:

Constants:

2. $3x + 2 - 10 - 3y$

Terms:

Like Terms:

Coefficients:

Constants:

SIMPLIFYING ALGEBRAIC EXPRESSIONS

Simplest Form

- No like terms (combine all terms that are the same)
- No parentheses

EXAMPLES:

Simplify each expression.

3. $4z - z$

4. $6 - 3n + 3n$

5. $2g - 3 + 11 - 8g$

6. $-3(m - 1) + 4m + 2$

REAL-WORLD

7. Chloe is using a certain number of blue beads in a bracelet design. She will use 7 more red beads than blue beads. Write an expression in simplest form that represents the total number of beads in her bracelet design.

8. Cain and Connur both collect stamps. Cain has 16 more stamps in his collection than Connur. Write an expression in simplest form that represents the total number of stamps in both collections.