Independent Practice (You Do)

Learning Target: I will evaluate algebraic expressions

Readiness for solving equations with more than one step

Title of Game: Play "**Simplifying Algebraic Expressions Match-up**!"

Number of Players: 2

Objective: To match all of your **"Problem"** cards to the equivalent **"Answer"** cards.

Materials:

➢ 1 set of **Problem** and **Answer** cards per group

➢ 1 recording sheet per player

Set-up:

➢ Deal all 10 **Problem** cards face down in a row.

➢ Deal 5 **Answer** cards face up to each player.

Directions:

➢ **Player 1** goes first
  o Take a card from the row of face down **Problem** cards and turn it face up
  o Write the problem on the recording sheet
  o And, find the answer in simplest form

➢ If **Player 1** has the **Answer** card, place it face up on top of the **Problem** card, take both cards and say:

> *"The like-terms in the expression are ___."*

➢ If **Player 1** does not have the answer to the **Problem** card, turn the **Problem** card back over.

➢ **Players 1 and 2** alternate turns. The **winner** is the first player to match all 5 of their cards.

Problem Cards (Set A)

7th Grade - Readiness Standard 5 – 6.EE.4

Storage Suggestions: Copy the **Problem (Set A)** cards and **Answer (Set A)** cards in two different colors.
Store 1 set of each in a sealable bag for each pair of students.

Set A₁

$3x + 5 + x + 1$ Set A	$3x + 5 + x - 1$ Set A		
$x^2 + 5x + 3 + x^2 - 1$ Set A	$x^2 + 5x + 3 - x^2 + 1$ Set A	$x^2 + 5x + 3 + x^2 + 1$ Set A	$x^2 + 5x + 3 - x^2 - 1$ Set A
$3(x + 5) + x - 1$ Set A	$3(x + 5) - x + 1$ Set A	$5(x + 3) + x - 1$ Set A	$5(x + 3) - x + 1$ Set A

Set A₂

$3x + 5 + x + 1$ Set A	$3x + 5 + x - 1$ Set A		
$x^2 + 5x + 3 + x^2 - 1$ Set A	$x^2 + 5x + 3 - x^2 + 1$ Set A	$x^2 + 5x + 3 + x^2 + 1$ Set A	$x^2 + 5x + 3 - x^2 - 1$ Set A
$3(x + 5) + x - 1$ Set A	$3(x + 5) - x + 1$ Set A	$5(x + 3) + x - 1$ Set A	$5(x + 3) - x + 1$ Set A

Answer Cards (Set A)

7th Grade - Readiness Standard 5 – 6.EE.4

Storage Suggestions: Copy the **Problem (Set A)** cards and **Answer (Set A)** cards in two different colors. Store 1 set of each in a sealable bag for each pair of students.

Set A₁

$4x + 6$ Set A	$4x + 4$ Set A		
$2x^2 + 5x + 2$ Set A	$5x + 4$ Set A	$2x^2 + 5x + 4$ Set A	$5x + 2$ Set A
$4x + 14$ Set A	$2x + 16$ Set A	$6x + 14$ Set A	$4x + 16$ Set A

Set A₂

$4x + 6$ Set A	$4x + 4$ Set A		
$2x^2 + 5x + 2$ Set A	$5x + 4$ Set A	$2x^2 + 5x + 4$ Set A	$5x + 2$ Set A
$4x + 14$ Set A	$2x + 16$ Set A	$6x + 14$ Set A	$4x + 16$ Set A

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Storage Suggestions: Copy the **Problem (Set B)** cards and **Answer (Set B)** cards in two different colors. Store 1 set of each in a sealable bag for each pair of students.

Set B₁

$4x + 6 + x + 2$ *Set B*	$4x + 6 + x - 2$ *Set B*	$4x + 6 - x + 2$ *Set B*	$4x + 6 - x - 2$ *Set B*
$x^2 + 6x + 4 + x^2 - 2$ *Set B*	$x^2 + 6x + 4 - x^2 + 2$ *Set B*		
$4(x + 6) + x - 2$ *Set B*	$4(x + 6) - x + 2$ *Set B*	$6(x + 4) + x - 2$ *Set B*	$6(x + 4) - x + 2$ *Set B*

Set B₂

$4x + 6 + x + 2$ *Set B*	$4x + 6 + x - 2$ *Set B*	$4x + 6 - x + 2$ *Set B*	$4x + 6 - x - 2$ *Set B*
$x^2 + 6x + 4 + x^2 - 2$ *Set B*	$x^2 + 6x + 4 - x^2 + 2$ *Set B*		
$4(x + 6) + x - 2$ *Set B*	$4(x + 6) - x + 2$ *Set B*	$6(x + 4) + x - 2$ *Set B*	$6(x + 4) - x + 2$ *Set B*

Answer Cards (Set B)

7th Grade - Readiness Standard 5 – 6.EE.4

Storage Suggestions: Copy the **Problem (Set B)** cards and **Answer (Set B)** cards in two different colors.
Store 1 set of each in a sealable bag for each pair of students.

Set B₁

$5x + 8$ Set B	$5x + 4$ Set B	$3x + 8$ Set B	$3x + 4$ Set B
$2x^2 + 6x + 2$ Set B	$6x + 6$ Set B		
$5x + 22$ Set B	$3x + 26$ Set B	$7x + 22$ Set B	$5x + 26$ Set B

Set B₂

$5x + 8$ Set B	$5x + 4$ Set B	$3x + 8$ Set B	$3x + 4$ Set B
$2x^2 + 6x + 2$ Set B	$6x + 6$ Set B		
$5x + 22$ Set B	$3x + 26$ Set B	$7x + 22$ Set B	$5x + 26$ Set B