Name $\qquad$

Learning Target: I will simplify algebraic expressions

## Session 1: Guided Practice (We Do)

## Materials:

$>$ Algebra Tiles ( 1 set on $p .13: 20+1 \mathrm{~s}$ and $16+x$ 's per student)
$>$ Equation mat (1 per student)

We Do Together: (Teacher Actions)
> Say, build and simplify each algebraic expression.
(Both partners build the original expression and only one rearranges their tiles to simplify the expression.)


Name $\qquad$
$\qquad$

Learning Target: I will simplify algebraic expressions

## Session 1: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
$>$ Students take turns leading to simplify each algebraic expression.

| 5. $2 x+4+3 x+2+x-1$ |  |  |
| :--- | :--- | :--- | :--- |

## Quick Check - Form A

Name $\qquad$ Date $\qquad$

Learning Target: I will simplify algebraic expressions.

Directions: Write the simplified equivalent expression. (Work time: 4 minutes)


## Growth Chart

Name
Date

Learning Target: I will simplify algebraic expressions.
Goal: 5 out of 6 correct


| Intervention | Date | Score |
| :--- | :--- | :--- |
| Session 1: |  |  |
| Session 2: |  |  |
| Session 3: |  |  |
| Session 4: |  |  |
| Session 5: |  |  |
| Session 6: |  |  |
| Session 7: |  |  |
| Session 8: |  |  |

Name $\qquad$

Learning Target: I will simplify algebraic expressions

## Session 2: Guided Practice (We Do)

## Materials:

( Algebra Tiles ( 1 set on $p .13: 20+1 s$ and $16+x$ 's per student)
$>$ Equation mat (1 per student)

We Do Together: (Teacher Actions)
> Say, build and simplify each algebraic expression.
(Both partners build the original expression and only one rearranges their tiles to simplify the expression.)


M $\triangle$ TH $\qquad$
$\qquad$

Learning Target: I will simplify algebraic expressions

## Session 2: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
$>$ Students take turns leading to simplify each algebraic expression.

| 5. | $3 x+5+3 x+2+x-1$ |  |  |
| :--- | :--- | :--- | :--- |

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Learning Target: I will simplify algebraic expressions.
Directions: Write the simplified equivalent expression. (Work time: 4 minutes)
 Session 3: Modeling (I Do)

Learning Target: I will simplify algebraic expressions
Readiness for solving equations with more than one step
Sally scored 6 more than a mystery number points during last night's basketball game. Alexis scored 1 more than twice the mystery number of points during the same game. Together they scored $x+6+2 x+1$ points during the game. What is a simplified expression equal to the total number of points they scored?

Name $\qquad$ Date $\qquad$

Learning Target: I will simplify algebraic expressions

## Session 3: Guided Practice (We Do)

We Do Together: (Teacher Actions)
> Say, draw, and simplify each algebraic expression.

| Not Simplified | Simplified |
| :---: | :---: |
| 1. |  |
| 2. $x^{2}+3 x+4+x-3$ |  |
| 3. |  |

$\mathrm{M} \Delta \mathrm{TH}$ $\qquad$
$\qquad$

Learning Target: I will simplify algebraic expressions

## Session 3: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
> Students take turns leading to simplify each algebraic expression.

| Not Simplified | Simplified |
| :---: | :---: |
| 4. $2 x+4+5 x+2+x-1$ |  |
| 5. |  |
| 6. $3\left(2 x^{2}+4\right)+2 x^{2}+3 x-2$ $\boxed { + x ^ { 2 } } \longdiv { + x ^ { 2 } } + \mathbf { + } +$ $\square$ $\square$ $+x^{2}+ + \pm 4$ |  |

$\mathrm{M} \mathrm{\Delta TH}$ $\qquad$
$\qquad$

Learning Target: I will simplify algebraic expressions

## Session 3: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
> Students take turns leading to simplify each algebraic expression.


## Quick Check - Form C

Name $\qquad$ Date $\qquad$

Learning Target: I will simplify algebraic expressions.

Directions: Write the simplified equivalent expression. (Work time: 4 minutes)

$\mathrm{M} \mathrm{\Delta TH}$ $\qquad$
$\qquad$

Learning Target: I will simplify algebraic expressions

## Session 4: Guided Practice (We Do)

We Do Together: (Teacher Actions)
> Say, draw, and simplify each algebraic expression.

| Not Simplified | Simplified |
| :---: | :---: |
| 1. $2 x+5+3 x+1$ |  |
| 2. $x^{2}+3 x+4+x-2$ |  |
| 3. |  |

$\mathrm{M} \mathrm{\Delta TH}$ $\qquad$
$\qquad$

Learning Target: I will simplify algebraic expressions

## Session 4: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
> Students take turns leading to simplify each algebraic expression.

| Not Simplified | Simplified |
| :---: | :---: |
| 4. $2 x+4+6 x+2+x-3$ |  |
| 5. $\begin{array}{ccc} 3(x+2)+2 x+3 \\ & \\ ++x++ & ++x & \mathbf{+} \\ ++x & ++ & ++x \\ + \\ ++x & + & \end{array}$ |  |
| 6. $2\left(2 x^{2}+4\right)+2 x^{2}+3 x-1$ |  |

$\mathrm{M} \mathrm{\Delta TH}$ $\qquad$
$\qquad$

Learning Target: I will simplify algebraic expressions

## Session 4: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
> Students take turns leading to simplify each algebraic expression.

| Not Simplified | Simplified |
| :---: | :---: |
| 7. |  |
| 8. |  |
| 9. |  |

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Learning Target: I will simplify algebraic expressions.
Directions: Write the simplified equivalent expression. (Work time: 4 minutes)

| 1. | $x+x+x+x$ | 2. | $5 x+6 x+10$ |
| :---: | :---: | :---: | :---: |
| 3 |  | 4. |  |
|  | $3+9 x-6 x+4$ |  | $6(x+7)$ |
| 5. | $4 x+2(x+1)$ | 6. | $4(x+2)-3+x$ |

Name $\qquad$ Date $\qquad$

Learning Target: I will simplify algebraic expressions

## Session 5: Guided Practice (We Do)

We Do Together: (Teacher Actions)
> Say, draw, and simplify each algebraic expression.

| Not Simplified | Simplified |
| :---: | :---: |
| 1. |  |
| 2. $2 x^{2}+3 x+4+x-3$ |  |
| 3. $\begin{aligned} & 2\left(x^{2}+3\right)+x^{2}+4 x-2 \\ &++x^{2}+++\square+x^{2} \begin{array}{\|c} +x \\ +x^{2}+\frac{1}{4}+ \\ \end{array} \\ & \hline+x \\ & \hline \end{aligned}$ |  |

$M \Delta T H$ $\qquad$
$\qquad$

Learning Target: I will simplify algebraic expressions

## Session 5: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
> Students take turns leading to simplify each algebraic expression.

| Not Simplified | Simplified |
| :---: | :---: |
| 4. $2 x+3+4 x+2+x-1$ |  |
| 5. |  |
| 6. |  |

$\mathrm{M} \mathrm{\Delta TH}$ $\qquad$
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Learning Target: I will simplify algebraic expressions

## Session 5: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
> Students take turns leading to simplify each algebraic expression.

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Learning Target: I will simplify algebraic expressions.
Directions: Write the simplified equivalent expression. (Work time: 4 minutes)


M $\triangle$ TH
Name $\qquad$ Date $\qquad$

Learning Target: I will simplify algebraic expressions

## Session 6: Guided Practice (We Do)

We Do Together: (Teacher Actions)
> Simplify each algebraic expression.


M $\triangle$ TH $\qquad$
$\qquad$
Learning Target: I will simplify algebraic expressions

## Session 6: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
> Students take turns leading to simplify each algebraic expression.

| Not Simplified | Simplified |
| :---: | :---: |
| 5. $5 x+3+5 x+9+x-1$ |  |
| 6. $7(x+6)+3 x+8$ |  |
| 7. $5\left(2 x^{2}+9\right)+4 x^{2}+8 x-5$ |  |
| 8. $8\left(2 x^{2}+7\right)+3 x^{2}+6 x-4$ |  |

M $\triangle$ TH $\qquad$
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Learning Target: I will simplify algebraic expressions

## Session 6: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
> Students take turns leading to simplify each algebraic expression.

| Not Simplified | Simplified |
| :---: | :---: |
| 9. $x^{2}+5 x+9+x+1+4 x^{2}$ |  |
| 10. $7\left(x^{2}+3 x+6\right)-10$ |  |
| 11. $3\left(x^{2}+4 x+1\right)+4\left(2 x^{2}+x+3\right)$ |  |
| 12. $5\left(4 x^{2}+x+1\right)+2\left(x^{2}+7 x+3\right)$ |  |

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Learning Target: I will simplify algebraic expressions.
Directions: Write the simplified equivalent expression. (Work time: 4 minutes)


M $\triangle$ TH
Name $\qquad$ Date $\qquad$
Learning Target: I will simplify algebraic expressions

## Session 7: Guided Practice (We Do)

We Do Together: (Teacher Actions)
> Simplify each algebraic expression.


M $\triangle$ TH $\qquad$
$\qquad$

Learning Target: I will simplify algebraic expressions

## Session 7: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
> Students take turns leading to simplify each algebraic expression.


M $\triangle$ TH $\qquad$
$\qquad$

Learning Target: I will simplify algebraic expressions

## Session 7: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
> Students take turns leading to simplify each algebraic expression.

| Not Simplified | Simplified |
| :---: | :---: |
| 9. $x^{2}+4 x+7+x+1+5 x^{2}$ |  |
| 10. $6\left(x^{2}+7 x+8\right)-10$ |  |
| 11. $9\left(x^{2}+4 x+1\right)+8\left(2 x^{2}+x+7\right)$ |  |
| 12. $3\left(7 x^{2}+x+1\right)+5\left(x^{2}+6 x+9\right)$ |  |

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Learning Target: I will simplify algebraic expressions.
Directions: Write the simplified equivalent expression. (Work time: 4 minutes)


M $\triangle$ TH
Name $\qquad$
$\qquad$

Learning Target: I will simplify algebraic expressions

## Session 8: Guided Practice (We Do)

We Do Together: (Teacher Actions)
> Simplify each algebraic expression.


M $\triangle$ TH $\qquad$
$\qquad$
Learning Target: I will simplify algebraic expressions

## Session 8: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
> Students take turns leading to simplify each algebraic expression.


M $\triangle$ TH $\qquad$
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Learning Target: I will simplify algebraic expressions

## Session 8: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)
> Students take turns leading to simplify each algebraic expression.

| Not Simplified | Simplified |
| :---: | :---: |
| 9. $x^{2}+5 x+9+x+1+6 x^{2}$ |  |
| 10. $7\left(x^{2}+3 x+6\right)-2$ |  |
| 11. $3\left(x^{2}+9 x+1\right)+7\left(2 x^{2}+x+3\right)$ |  |
| 12. $6\left(4 x^{2}+x+1\right)+8\left(x^{2}+7 x+3\right)$ |  |

## Quick Check - Form H

Name $\qquad$ Date $\qquad$

Learning Target: I will simplify algebraic expressions.

Directions: Write the simplified equivalent expression. (Work time: 4 minutes)

| 1. | $x+x+x+x$ | 2. | $5 x+6 x+10$ |
| :---: | :---: | :---: | :---: |
| 3 |  | 4. |  |
|  | $3+9 x-6 x+4$ |  | $6(x+7)$ |
| 5. |  | 6. |  |
|  | $4 x+2(x+1)$ |  | $4(x+2)-3+x$ |

