



Name _____ Date _____

Learning Target: I will solve multi-step linear equations

Algebra 1 – Readiness Standard 1 – 8.EE.7b

Readiness for solving systems of linear equations

Session 1: Guided Practice (Whole Group)

1. Say the equation and use number sense to find each solution.

Equation	Solution	Why?
$x + 3 = 5$ What number plus 3 is equal to 5?	$x = \underline{\quad}$	Because $\underline{\quad} + 3 = 5$
$x + 6 = 10$	$x = \underline{\quad}$	Because $\underline{\quad} + 6 = 10$
$x - 3 = 5$	$x = \underline{\quad}$	Because $\underline{\quad} + 3 = 5$
$8 - x = 6$	$x = \underline{\quad}$	Because $8 - \underline{\quad} = 6$
$2x = 8$	$x = \underline{\quad}$	Because $2 \cdot \underline{\quad} = 8$
$\frac{1}{2}x = 6$	$x = \underline{\quad}$	Because $\frac{1}{2} \cdot \underline{\quad} = 6$

2. a. Is 5 a solution to the equation $2x + 1 = 9$? _____

b. How do you know? _____

Learning Target: I will solve multi-step linear equations

Algebra 1 – Readiness Standard 1 – 8.EE.7b

Readiness for solving systems of linear equations

Session 1: Guided Practice (Whole Group – Cont.)

Definition: The solution to an equation is the value of the variable that makes the equation true.

3. Below are steps to check if $x = 2$ is a solution to the equation $2x + 1 = 5x - 8$. For each solution step, discuss what happened and fill in the missing information.

Draw	Write	Describe
	$2x + 1 = 5x - 8$ $2x + 1 = 5x + -8$	<p>Changed subtraction to “add the opposite” $5x - 8 \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ to model the equation with algebra tiles</p>
	$2 \cdot 2 + 1 \stackrel{?}{=} 5 \cdot 2 + -8$	<p>Substituted $2x \rightarrow 2 \cdot \underline{\hspace{1cm}}$ and $5x \rightarrow 5 \cdot \underline{\hspace{1cm}}$ to evaluate each algebraic expression</p>
	$4 + 1 \stackrel{?}{=} 10 + -8$	<p>Multiplied $\underline{\hspace{1cm}} \cdot \underline{\hspace{1cm}} \rightarrow 4$ and $\underline{\hspace{1cm}} \cdot \underline{\hspace{1cm}} \rightarrow 10$ to simplify using order of operations</p>
	$5 \neq 2$	<p>Added and Compared $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} \rightarrow 5$ and $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} \rightarrow 2$ 5 and 2 are _____ to simplify each expression and check for equality</p>
	$2 \text{ is not a solution}$	<p>Decided 2 is not a solution because the two sides of the equation are _____</p>



Learning Target: I will solve multi-step linear equations

Algebra 1 – Readiness Standard 1 – 8.EE.7b

Readiness for solving systems of linear equations

Session 1: Guided Practice (Whole Group – Cont.)

Definition: The solution to an equation is the value of the variable that makes the equation true.

4. Below are steps to check if $x = 3$ is a solution to the equation $2x + 1 = 5x - 8$.
For each solution step, discuss what happened and fill in the missing information.

Draw	Write	Describe
	$2x + 1 = 5x - 8$ $2x + 1 = 5x + -8$	<p>Changed subtraction to “add the opposite” $5x - 8 \rightarrow \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ to model the equation with algebra tiles</p>
	$2 \cdot 3 + 1 \stackrel{?}{=} 5 \cdot 3 + -8$	<p>Substituted $2x \rightarrow 2 \cdot \underline{\hspace{1cm}}$ and $5x \rightarrow 5 \cdot \underline{\hspace{1cm}}$ to evaluate each algebraic expression</p>
	$6 + 1 \stackrel{?}{=} 15 + -8$	<p>Multiplied $\underline{\hspace{1cm}} \cdot \underline{\hspace{1cm}} \rightarrow 6$ and $\underline{\hspace{1cm}} \cdot \underline{\hspace{1cm}} \rightarrow 15$ to simplify using order of operations</p>
	$7 = 7$	<p>Added and Compared $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} \rightarrow 7$ and $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} \rightarrow 7$ 7 and 7 are _____ to simply each expression and check for equality</p>
	<p>3 is a solution</p>	<p>Decided 3 is a solution because the two sides of the equation are _____</p>



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Learning Target: I will solve multi-step linear equations

Algebra 1 – Readiness Standard 1 – 8.EE.7b

Session 1: Guided Practice (Pairs)

Directions: Complete the steps to check if the given value is a solution.

<p>5. Is $x = 2$ a solution? <input checked="" type="radio"/> Yes or No</p> $4x - 1 = x + 5$ $4x + -1 = x + 5$ $4 \cdot \underline{\quad} + -1 \stackrel{?}{=} \underline{\quad} + 5$ $\underline{\quad} + -1 \stackrel{?}{=} \underline{\quad}$ $\underline{\quad} = \underline{\quad}$	<p>6. Is $x = 4$ a solution? Yes or No</p> $3x - 4 = 5x - 10$ $3x + -4 = 5x + \underline{\quad}$ $3 \cdot \underline{\quad} + -4 \stackrel{?}{=} 5 \cdot \underline{\quad} + \underline{\quad}$ $\underline{\quad} + -4 \stackrel{?}{=} \underline{\quad} + \underline{\quad}$ $\underline{\quad} \quad \underline{\quad}$
<p>7. Is $x = 4$ a solution? <input checked="" type="radio"/> Yes or No</p> $2(3x - 4) = x + 12$ $2(3 \cdot \underline{\quad} + \underline{\quad}) = x + 12$ $2(\underline{\quad} + \underline{\quad}) \stackrel{?}{=} \underline{\quad} + 12$ $2(\underline{\quad}) \stackrel{?}{=} \underline{\quad}$ $\underline{\quad} = \underline{\quad}$	<p>8. Is $x = 7$ a solution? Yes or No</p> $3x - 6 = 5(x - 4)$ $3x + -6 = 5(x + \underline{\quad})$ $3 \cdot \underline{\quad} + -6 \stackrel{?}{=} 5(\underline{\quad} + \underline{\quad})$ $\underline{\quad} + -6 \stackrel{?}{=} 5(\underline{\quad})$ $\underline{\quad} \quad \underline{\quad}$
<p>9. Is $x = 6$ a solution? Yes or <input checked="" type="radio"/> No</p> $2(3x + 1) = 4(x + 3)$ $2(3 \cdot \underline{\quad} + 1) = 4(\underline{\quad} + 3)$ $2(\underline{\quad} + 1) \stackrel{?}{=} 4(\underline{\quad})$ $2(\underline{\quad}) \stackrel{?}{=} \underline{\quad}$ $\underline{\quad} \neq \underline{\quad}$	<p>10. Is $x = 5$ a solution? Yes or No</p> $3(x + 5) = 5(2x - 4)$ $3(x + 5) \stackrel{?}{=} 5(2x + \underline{\quad})$ $3(\underline{\quad} + 5) \stackrel{?}{=} 5(2 \cdot \underline{\quad} + \underline{\quad})$ $3(\underline{\quad}) \stackrel{?}{=} 5(\underline{\quad} + \underline{\quad})$ $\underline{\quad} \stackrel{?}{=} 5(\underline{\quad})$ $\underline{\quad} \quad \underline{\quad}$

Learning Target: I will solve multi-step linear equations

Algebra 1 – Readiness Standard 1 – 8.EE.7b

Readiness for solving systems of linear equations

Session 1: Guided Practice (Teacher Notes – Cont.)

Definition: The solution to an equation is the value of the variable that makes the equation true.

3. Below are steps to check if $x = 2$ is a solution to the equation $2x + 1 = 5x - 8$.
For each solution step, discuss what happened and fill in the missing information.

Draw	Write	Describe
	$2x + 1 = 5x - 8$ $2x + 1 = 5x + -8$	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 10px;"> \rightarrow can be read as “Became” or “Changed To” </div> <p>Changed subtraction to “add the opposite” $5x - 8 \rightarrow \underline{5x} + \underline{-8}$ to model the equation with algebra tiles</p>
	$2 \cdot 2 + 1 \stackrel{?}{=} 5 \cdot 2 + -8$	<p>Substituted $2x \rightarrow 2 \cdot \underline{2}$ and $5x \rightarrow 5 \cdot \underline{2}$ to evaluate each algebraic expression</p>
	$4 + 1 \stackrel{?}{=} 10 + -8$	<p>Multiplied $\underline{2} \cdot \underline{2} \rightarrow 4$ and $\underline{5} \cdot \underline{2} \rightarrow 10$ to simplify using order of operations</p>
	$5 \neq 2$ <p>2 is not a solution</p>	<p>Added and Compared $\underline{4} + \underline{1} \rightarrow 5$ and $\underline{10} + \underline{-8} \rightarrow 2$ 5 and 2 are not equal to simply each expression and check for equality</p> <p>Decided 2 is not a solution because the two sides of the equation are not equal</p>

Learning Target: I will solve multi-step linear equations

Algebra 1 – Readiness Standard 1 – 8.EE.7b

Readiness for solving systems of linear equations

Session 2: Guided Practice (Whole Group)

 1. Below are steps to find the solution to the equation $2x + 1 = 5x - 8$.

For each solution step, discuss what happened and fill in the missing information.

Draw	Write	Describe
	$2x + 1 = 5x - 8$	
	$2x + 1 = 5x + -8$ $-2x \quad -2x$	<p>Changed subtraction to “add the opposite” $5x - 8 \rightarrow \underline{\quad} + \underline{\quad}$ to model the equation with algebra tiles</p> <p>Added $-2x$ to $\underline{\quad}$ and $\underline{\quad}$ to get the terms with the variable on one side of the equal sign</p>
	$1 = 3x + -8$	<p>Removed Zero Pairs $\underline{\quad} + -2x \rightarrow 0$ and $\underline{\quad} + -2x \rightarrow 3x$ to simplify the equation</p>
	$+8 \quad +8$	<p>Added 8 to $\underline{\quad}$ and $\underline{\quad}$ to get the term with the variable by itself</p>
	$9 = 3x$	<p>Removed Zero Pairs $\underline{\quad} + 8 \rightarrow 9$ and $\underline{\quad} + 8 \rightarrow 0$ to simplify the equation</p>
	$\frac{\quad}{3} = \frac{\quad}{3}$ $3 = x$	<p>Divided $\underline{\quad}$ and $\underline{\quad}$ by 3 to get the variable by itself</p>
	$3 = x$	<p>Simplified $\underline{\quad} \div 3 \rightarrow 3$ and $\underline{\quad} \div 3 \rightarrow x$ to find the solution to the equation</p>

Learning Target: I will solve multi-step linear equations

Algebra 1 – Readiness Standard 1 – 8.EE.7b

Readiness for solving systems of linear equations

Session 2: Guided Practice (Whole Group – Cont.)

 2. Below are steps to find the solution to the equation $4(x - 2) = 2x - 4$.

For each solution step, discuss what happened and fill in the missing information.

Draw	Write	Describe
	$4(x - 2) = 2x - 4$	
	$4(x + -2) = 2x + -4$	Changed subtraction to “add the opposite” $4(x - 2) \rightarrow$ _____ and $2x - 4 \rightarrow$ _____ to model the equation with algebra tiles
	$4x + -8 = 2x + -4$	Multiplied $4 \cdot$ _____ \rightarrow _____ and $4 \cdot$ _____ \rightarrow _____ to eliminate the parentheses
	$-2x$ _____ $-2x$	Added $-2x$ to _____ and _____ to get the terms with the variable on one side of the equal sign
	$2x + -8 = -4$	Removed Zero Pairs _____ $+ -2x \rightarrow 2x$ and _____ $+ -2x \rightarrow 0$ to simplify the equation
	$+8$ _____ $+8$	Added 8 to _____ and _____ to get the term with the variable by itself
	$2x = 4$	Removed Zero Pairs _____ $+ 8 \rightarrow 0$ and _____ $+ 8 \rightarrow 4$ to simplify the equation
	$\frac{\quad}{2}$ _____ $\frac{\quad}{2}$	Divided _____ and _____ by 2 to get the variable by itself
	$x = 2$	Simplified _____ $\div 2 \rightarrow x$ and _____ $\div 2 \rightarrow 2$ to find the solution to the equation



Name _____ Date _____

Learning Target: I will solve multi-step linear equations

Algebra 1 – Readiness Standard 1 – 8.EE.7b

Session 2: Guided Practice (Pairs)

Directions: Complete the steps used to solve each linear equation.

<p>3. $4x - 1 = x + 5$</p> $4x + -1 = x + 5$ $3x + -1 = \underline{\hspace{2cm}}$ $3x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$	<p>4. $3x - 4 = 5x - 10$</p> $3x + -4 = 5x + \underline{\hspace{2cm}}$ $-4 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$ $6 = 2x$ $\underline{\hspace{2cm}} = x$
<p>5. $2(3x - 4) = x + 12$</p> $2(3x + \underline{\hspace{2cm}}) = x + 12$ $2 \cdot 3x + 2 \cdot \underline{\hspace{2cm}} = x + 12$ $6x + \underline{\hspace{2cm}} = x + 12$ $5x + \underline{\hspace{2cm}} = 12$ $5x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$	<p>6. $3x - 6 = 5(x - 4)$</p> $3x + -6 = 5(x + \underline{\hspace{2cm}})$ $3x + -6 = 5 \cdot x + \underline{\hspace{2cm}} \cdot \underline{\hspace{2cm}}$ $3x + -6 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$ $-6 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$ $14 = 2x$ $\underline{\hspace{2cm}} = x$
<p>7. $2(3x + 1) = 4(x + 3)$</p> $2 \cdot \underline{\hspace{2cm}} + 2 \cdot \underline{\hspace{2cm}} = 4 \cdot \underline{\hspace{2cm}} + 4 \cdot \underline{\hspace{2cm}}$ $6x + 2 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$ $2x + 2 = \underline{\hspace{2cm}}$ $2x = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$	<p>8. $3(x + 5) = 5(2x - 4)$</p> $3(x + 5) = 5(\underline{\hspace{2cm}} + \underline{\hspace{2cm}})$ $3 \cdot \underline{\hspace{2cm}} + 3 \cdot \underline{\hspace{2cm}} = 5 \cdot \underline{\hspace{2cm}} + 5 \cdot \underline{\hspace{2cm}}$ $3x + 15 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$ $15 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$ $35 = \underline{\hspace{2cm}}$ $\underline{\hspace{2cm}} = x$



Algebra 1 Quick Check – Form A

Readiness Standard 1 - 8.EE.7b

Name _____ Date _____

Learning Target: I will solve multi-step linear equations.

Directions: Answer each question and show your work. (Work time: 5 minutes)

1.

What value of x makes the equation below true?

$$2x + 15 = 8x - 9$$

2.

What is the solution to the equation below?

$$5(x + 2) = x - 2$$



Algebra 1 Quick Check – Form A

Readiness Standard 1 - 8.EE.7b (Continued)

3.

What value of x makes the following true?

$$2(5x - 4) = 3x + 13$$

4.

What is the solution to the equation below?

$$2(4x + 1) = 3(x - 6)$$



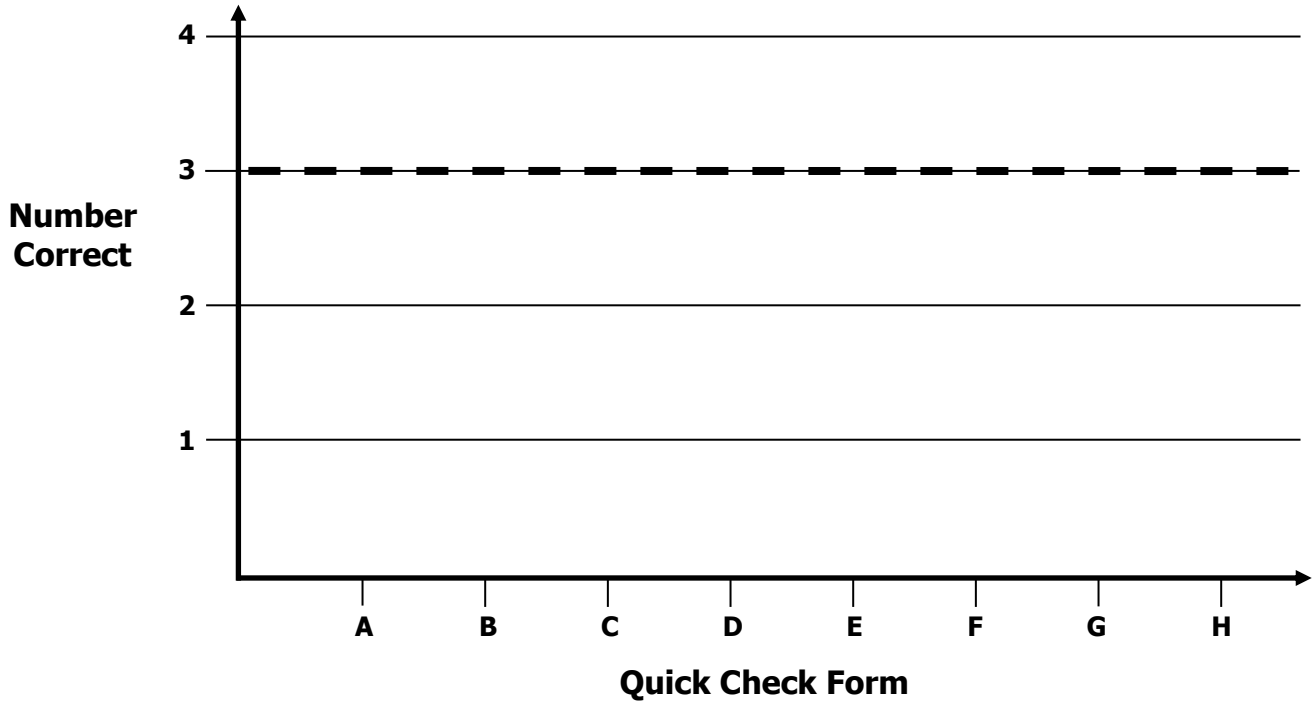
Algebra 1 Growth Chart

Readiness Standard 1 - 8.EE.7b

Name _____

Learning Target: I will solve multi-step linear equations.

Goal: 3 out of 4 correct



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



Learning Target: I will solve multi-step linear equations

Algebra 1 – Readiness Standard 1 – 8.EE.7b

Readiness for solving systems of linear equations

Session 3: Guided Practice (Whole Group)

Directions: Below are steps to find the solution to each equation.

For each solution step, discuss what happened and fill in the missing information.

Write	Describe
<p>1. $3x + 2 = 5x - 6$</p> <p>$3x + 2 = 5x + -6$</p> <p>$\underline{-3x} \quad \underline{-3x}$</p> <p>$2 = 2x + -6$</p> <p>$\underline{+6} \quad \underline{+6}$</p> <p>$\frac{8}{2} = \frac{2x}{2}$</p> <p>$4 = x$</p>	<p>Changed to Addition $5x - 6 \rightarrow \underline{\quad} + \underline{\quad}$ to make it easier to combine like terms</p> <p>Added $\underline{\quad} + \underline{\quad} \rightarrow 0$ and $\underline{\quad} + \underline{\quad} \rightarrow 2x$ to get the terms with the variable on one side of the equal sign</p> <p>Added $\underline{\quad} + \underline{\quad} \rightarrow 8$ and $\underline{\quad} + \underline{\quad} \rightarrow 0$ to get the term with the variable by itself</p> <p>Divided $\underline{\quad} \div \underline{\quad} \rightarrow 4$ and $\underline{\quad} \div \underline{\quad} \rightarrow x$ to find the solution to the equation</p>
<p>2. $3(x + 2) = 5x - 6$</p> <p>$3(x + 2) = 5x + -6$</p> <p>$3x + 6 = 5x + -6$</p> <p>$\underline{-3x} \quad \underline{-3x}$</p> <p>$6 = 2x + -6$</p> <p>$\underline{+6} \quad \underline{+6}$</p> <p>$\frac{12}{2} = \frac{2x}{2}$</p> <p>$6 = x$</p>	<p>Changed to Addition $5x - 6 \rightarrow \underline{\quad} + \underline{\quad}$ to make it easier to combine like terms</p> <p>Multiplied $3 \cdot \underline{\quad} \rightarrow \underline{\quad}$ and $3 \cdot \underline{\quad} \rightarrow \underline{\quad}$ to eliminate the parentheses</p> <p>Added $\underline{\quad} + \underline{\quad} \rightarrow 0$ and $\underline{\quad} + \underline{\quad} \rightarrow 2x$ to get the terms with the variable on one side of the equal sign</p> <p>Added $\underline{\quad} + \underline{\quad} \rightarrow 12$ and $\underline{\quad} + \underline{\quad} \rightarrow 0$ to get the term with the variable by itself</p> <p>Divided $\underline{\quad} \div \underline{\quad} \rightarrow 6$ and $\underline{\quad} \div \underline{\quad} \rightarrow x$ to find the solution to the equation</p>



Name _____ Date _____

Learning Target: I will solve multi-step linear equations

Algebra 1 – Readiness Standard 1 – 8.EE.7b

Session 3: Guided Practice (Pairs)

Directions: Solve each linear equation.

<p>3. $4x - 1 = x + 8$</p> <p>$4x + -1 = x + 8$</p> <p>$3x + -1 = \underline{\hspace{2cm}}$</p> <p>$3x = \underline{\hspace{2cm}}$</p> <p>$x = \underline{\hspace{2cm}}$</p>	<p>4. $3x - 4 = 5x - 12$</p> <p>$3x + -4 = 5x + \underline{\hspace{2cm}}$</p> <p>$-4 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$</p> <p>$x = \underline{\hspace{2cm}}$</p>
<p>5. $3(2x - 7) = x + 9$</p> <p>$3(2x + \underline{\hspace{2cm}}) = x + 9$</p> <p>$3 \cdot 2x + 3 \cdot \underline{\hspace{2cm}} = x + 9$</p> <p>$x = \underline{\hspace{2cm}}$</p>	<p>6. $2x - 4 = 6(x - 4)$</p> <p>$2x + -4 = 6(x + \underline{\hspace{2cm}})$</p> <p>$2x + -4 = 6 \cdot x + \underline{\hspace{2cm}} \cdot \underline{\hspace{2cm}}$</p> <p>$x = \underline{\hspace{2cm}}$</p>
<p>7. $2(7x + 1) = 3(x + 8)$</p> <p>$x = \underline{\hspace{2cm}}$</p>	<p>8. $2(x + 9) = 5(2x - 6)$</p> <p>$x = \underline{\hspace{2cm}}$</p>



Algebra 1 Quick Check – Form B

Readiness Standard 1 - 8.EE.7b

Name _____ Date _____

Learning Target: I will solve multi-step linear equations.

Directions: Answer each question and show your work. (Work time: 5 minutes)

1.

What value of x makes the equation below true?

$$3x - 6 = 8x + 9$$

2.

What is the solution to the equation below?

$$3(x + 2) = 5x - 6$$



Algebra 1 Quick Check – Form B

Readiness Standard 1 - 8.EE.7b (Continued)

3.

What value of x makes the following true?

$$2(4x - 6) = 2x + 12$$

4.

What is the solution to the equation below?

$$4(3x + 6) = 3(x - 7)$$



Name _____ Date _____

Learning Target: I will solve multi-step linear equations

Algebra 1 – Readiness Standard 1 – 8.EE.7b

Readiness for solving systems of linear equations

Session 4: Guided Practice (Whole Group)

Directions: Below are steps to find the solution each equation.

For each solution step, discuss what happened and fill in the missing information.

Write	Describe
<p>1. $3x + 6 = 5x - 4$</p> <p>$3x + 6 = 5x + -4$</p> <p>$\underline{-3x} \quad \underline{-3x}$</p> <p>$6 = 2x + -4$</p> <p>$\underline{+4} \quad \underline{+4}$</p> <p>$\frac{10}{2} = \frac{2x}{2}$</p> <p>$5 = x$</p>	<p>Changed to Addition $5x - 4 \rightarrow \underline{\quad} + \underline{\quad}$ to make it easier to combine like terms</p> <p>Added $\underline{\quad} + \underline{\quad} \rightarrow 0$ and $\underline{\quad} + \underline{\quad} \rightarrow 2x$ to get the terms with the variable on one side of the equal sign</p> <p>Added $\underline{\quad} + \underline{\quad} \rightarrow 10$ and $\underline{\quad} + \underline{\quad} \rightarrow 0$ to get the term with the variable by itself</p> <p>Divided $\underline{\quad} \div \underline{\quad} \rightarrow 5$ and $\underline{\quad} \div \underline{\quad} \rightarrow x$ to find the solution to the equation</p>
<p>2. $7x + 3 = 2(x - 6)$</p> <p>$7x + 3 = 2(x + -6)$</p> <p>$7x + 3 = 2x + -12$</p> <p>$\underline{-2x} \quad \underline{-2x}$</p> <p>$5x + 3 = -12$</p> <p>$\underline{-3} \quad \underline{-3}$</p> <p>$\frac{5x}{5} = \frac{-15}{5}$</p> <p>$x = -3$</p>	<p>Changed to Addition $2(x - 6) \rightarrow 2(\underline{\quad} + \underline{\quad})$ to make it easier to combine like terms</p> <p>Multiplied $2 \cdot \underline{\quad} \rightarrow \underline{\quad}$ and $2 \cdot \underline{\quad} \rightarrow \underline{\quad}$ to eliminate the parentheses</p> <p>Added $\underline{\quad} + \underline{\quad} \rightarrow 5x$ and $\underline{\quad} + \underline{\quad} \rightarrow 0$ to get the terms with the variable on one side of the equal sign</p> <p>Added $\underline{\quad} + \underline{\quad} \rightarrow 0$ and $\underline{\quad} + \underline{\quad} \rightarrow -15$ to get the term with the variable by itself</p> <p>Divided $\underline{\quad} \div \underline{\quad} \rightarrow x$ and $\underline{\quad} \div \underline{\quad} \rightarrow -3$ to find the solution to the equation</p>



Name _____ Date _____

Learning Target: I will solve multi-step linear equations

Algebra 1 – Readiness Standard 1 – 8.EE.7b

Session 4: Guided Practice (Pairs)

Directions: Solve each linear equation.

3. $3x - 5 = x + 9$	4. $4x - 7 = 7x + 8$
5. $3(4x - 9) = x + 6$	6. $3x - 6 = 6(x - 3)$
7. $2(5x + 6) = 6(x - 2)$	8. $2(x + 9) = 7(2x - 6)$



Algebra 1 Quick Check – Form C

Readiness Standard 1 - 8.EE.7b

Name _____ Date _____

Learning Target: I will solve multi-step linear equations.

Directions: Answer each question and show your work. (Work time: 5 minutes)

1.

What value of x makes the equation below true?

$$2x + 6 = 6x - 10$$

2.

What is the solution to the equation below?

$$3(x + 2) = x - 8$$



Algebra 1 Quick Check – Form C

Readiness Standard 1 - 8.EE.7b (Continued)

3.

What value of x makes the following true?

$$4(3x + 1) = 3x - 14$$

4.

What is the solution to the equation below?

$$4(3x - 6) = 2(x + 3)$$



Algebra 1 Quick Check – Form D

Readiness Standard 1 - 8.EE.7b

Name _____ Date _____

Learning Target: I will solve multi-step linear equations.

Directions: Answer each question and show your work. (Work time: 5 minutes)

1.

What value of x makes the equation below true?

$$2x - 10 = 5x + 2$$

2.

What is the solution to the equation below?

$$3(x - 3) = x + 7$$



Algebra 1 Quick Check – Form D

Readiness Standard 1 - 8.EE.7b (Continued)

3.

What value of x makes the following true?

$$4(2x - 6) = 3x + 11$$

4.

What is the solution to the equation below?

$$2(3x + 1) = 4(x - 2)$$