

Name _____ Date ____

Learning Target: I will solve equations with more than one step

Session 1: Guided Practice (We Do)

Materials:

- \triangleright Algebra Tiles (20 +1's, 10 +x's, 20 -1's, 10 -x's per pair of students taking turns using the tiles.)
- > Equation mat (1 per student)

We Do Together: (Teacher Actions)

> Translate the equation into a phrase with meaning. Then, use algebra tiles to find the solution.

1.

$$3x + 4 = 10$$

2.

$$3x - 4 = 8$$

3.

$$-13 = 4x + 3$$

$$4x - 1 = -13$$

Session 1: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)

> Students take turns leading to solve each equation using algebra tiles.

5.

$$2x + 4 = 10$$

6.

$$2x + 4 = -10$$

7.

$$3x - 1 = -13$$

8.

$$3x - 1 = 14$$

9.

$$4x + 2 = -10$$

$$4x - 2 = -10$$

Quick Check - Form A

Name_____ Date____

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

Directions: Solve each equation for x. (Work time: 4 minutes)

1.

$$16 = 2x + 4$$

2.

$$3 - 4x = 11$$

3.

$$-5 + 3x = 10$$

4.

$$2(x + 5) = 30$$

5.

$$\frac{1}{4}(x - 3) = 20$$

$$\frac{2}{3}x + 6 = -14$$

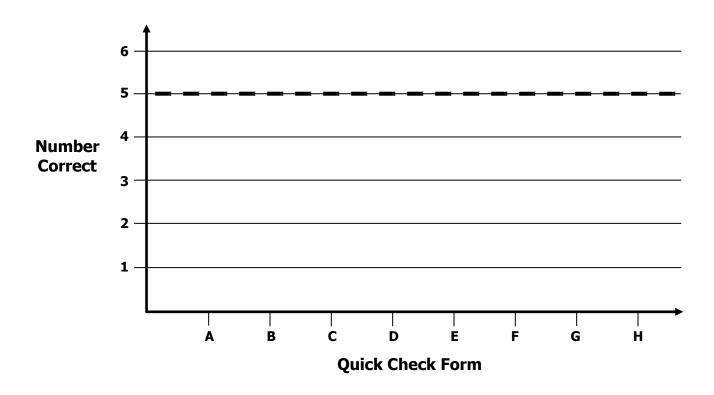


Growth Chart

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

Goal: 5 out of 6 correct



Intervention	Date	Score
Guided Review		

Session 2: Guided Practice (We Do)

Materials:

- \rightarrow Algebra Tiles (20 +1's, 10 +x's, 20 -1's, 10 -x's per pair of students taking turns using the tiles.)
- > Equation mat (1 per student)

We Do Together: (Teacher Actions)

> Translate the equation into a phrase with meaning. Then, use algebra tiles to find the solution.

1.

$$3x + 6 = 12$$

2.

$$3x - 6 = 6$$

3.

$$-14 = 4x + 2$$

$$4x - 2 = -14$$

Session 2: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)

> Students take turns leading to solve each equation using algebra tiles.

5.

$$2x + 3 = 9$$

6.

$$2x + 3 = -11$$

7.

$$3x - 2 = -14$$

8.

$$3x - 2 = 13$$

9.

$$4x + 3 = -9$$

$$4x - 3 = -11$$

Quick Check - Form B

Name_____ Date____

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

Directions: Solve each equation for x. (Work time: 4 minutes)

1.

$$31 = 5x + 6$$

2.

$$2 - 3x = 11$$

3.

$$-10 + 5x = 40$$

4.

$$2(x + 9) = 24$$

5.

$$\frac{1}{5}(x - 2) = 8$$

$$\frac{3}{4}x + 10 = -14$$

Date _____

Learning Target: I will solve equations with more than one step

Session 3: Guided Practice (We Do)

We Do Together: (Teacher Actions)

> Translate the equation into a phrase with meaning. Then, complete the math drawing to find the solution.

1.

2.

$$3x - 2 = -17$$

$$+x$$

$$+x$$

$$+x$$

$$+x$$

3.

$$-9 = 2x + 3$$

Date _____

Learning Target: I will solve equations with more than one step

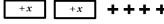
Session 3: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)

> Students take turns leading to solve each equation.

5.

$$2x + 4 = 10$$



6.

$$3(x + 2) = -9$$

+ X	
+ x	++

	_	_	_	_	-
	-	_	_	_	
ı					

7.

$$14 = 3x - 1$$

8.

$$-13 = 3x - 1$$

+ x	+ x

9.

$$4x + 2 = -10$$

$$4x - 2 = -10$$



Quick Check - Form C

Name_____ Date____

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

Directions: Solve each equation for x. (Work time: 4 minutes)

1.

$$14 = 4x + 2$$

2.

$$5 - 2x = 19$$

3.

$$-7 + 4x = 21$$

4.

$$3(x + 4) = 24$$

5.

$$\frac{1}{3}(x - 6) = 7$$

$$\frac{4}{5}x + 3 = -17$$

Session 4: Guided Practice (We Do)

We Do Together: (Teacher Actions)

> Translate the equation into a phrase with meaning. Then, complete the math drawing to find the solution.

1.

$$14 = 4x + 2$$
++
++
++
+x
+x

2.

$$3x - 4 = -19$$

$$+x$$

$$+x$$

$$+x$$

3.

$$-8 = 2x + 4$$

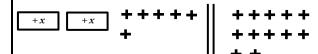
Session 4: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)

> Students take turns leading to solve each equation.

5.

$$2x + 6 = 12$$



6.

$$3(x + 1) = -9$$

+ x	+	
+ x	+	
+ x	i +	

7.

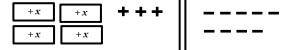
$$11 = 3x - 4$$

8.

$$-14 = 3x - 2$$

9.

$$4x + 3 = -9$$



$$4x - 3 = -11$$



Quick Check - Form D

Name______ Date_____

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

Directions: Solve each equation for x. (Work time: 4 minutes)

1.

$$20 = 6x + 8$$

2.

$$7 - 5x = 32$$

3.

$$-9 + 8x = 15$$

4.

$$4(x + 2) = 28$$

5.

$$\frac{1}{2}(x-4)=10$$

$$\frac{3}{5}x + 5 = -25$$

Session 5: Guided Practice (We Do)

We Do Together: (Teacher Actions)

> Translate the equation into a phrase with meaning. Then, complete the math drawing to find the solution.

1. "1 third of what number plus 3 is equal to 10?"

$$\frac{1}{3}x + 3 = 10$$

2.

$$\frac{1}{4}x - 3 = -1$$

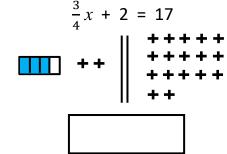


3.

$$1 = \frac{2}{5}x - 5$$

.,	
+x-tile	

4.



+x-til

Session 5: Guided Practice (We Do - Continued)

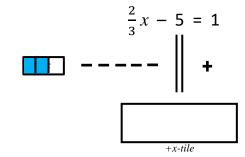
You Do Together: (As a class, or in small groups)

> Students take turns leading to solve each 1-step equation.

5. "1 fourth of what number plus 2 is equal to 9?"

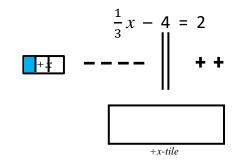
$$\frac{1}{4}x + 2 = 9$$
++x+++
+++++
+x-tile

6.



7.

8.



9.

Quick Check - Form E

Name_____ Date____

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

Directions: Solve each equation for x. (Work time: 4 minutes)

1.

$$16 = 2x + 4$$

2.

$$3 - 4x = 11$$

3.

$$-5 + 3x = 10$$

4.

$$2(x + 5) = 30$$

5.

$$\frac{1}{4}(x - 3) = 20$$

$$\frac{2}{3}x + 6 = -14$$

Session 6: Guided Practice (We Do)

We Do Together: (Teacher Actions)

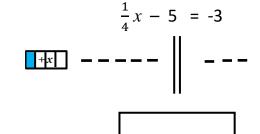
> Translate the equation into a phrase with meaning. Then, complete the math drawing to find the solution.

1. "1 third of what number plus 5 is equal to 12?"

$$\frac{1}{3}x + 5 = 12$$
++++
++++

+x-tile	

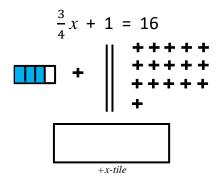
2.



3.

$$2 = \frac{2}{5}x - 4$$

$$+ + \qquad | \qquad | \qquad | \qquad |$$



Session 6: Guided Practice (We Do - Continued)

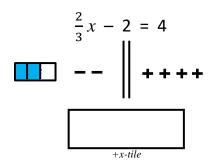
You Do Together: (As a class, or in small groups)

> Students take turns leading to solve each 1-step equation.

5. "1 fourth of what number plus 2 is equal to 9?"

$$\frac{1}{4}x + 3 = 10$$
+++++
+++++
+x-tile

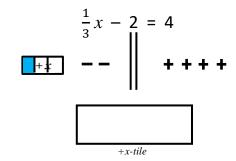
6.



7.

$$8 = 3x + 2$$
+++++
+++
++x
+x

8.



9.

Quick Check - Form F

Name_____ Date____

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

Directions: Solve each equation for x. (Work time: 4 minutes)

1.

$$31 = 5x + 6$$

2.

$$2 - 3x = 11$$

3.

$$-10 + 5x = 40$$

4.

$$2(x + 9) = 24$$

5.

$$\frac{1}{5}(x - 2) = 8$$

$$\frac{3}{4}x + 10 = -14$$



Name _____ Date ____

Learning Target: I will solve equations with more than one step

Session 7: Guided Practice (We Do)

We Do Together: (Teacher Actions)

> Translate the equation into a phrase to understand the equality. Then, show each step using numbers and symbols to find the solution.

1.	19 = 4 <i>x</i> - 1	2.	2(x + 4) = 14	3.	$\frac{2}{3}x + 4 = 10$

Session 7: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)

> Students take turns leading to show each step using numbers and symbols to find the solution.

4.

$$2x + 4 = 10$$

5.

$$3(x + 2) = -9$$

6.

$$-13 = 3x - 1$$

7.

$$\frac{1}{4}x + 2 = 9$$

8.

$$\frac{2}{3}x - 5 = 1$$

$$1 = \frac{2}{5}x - 5$$

Quick Check - Form G

Name_____ Date____

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

Directions: Solve each equation for x. (Work time: 4 minutes)

1.

$$14 = 4x + 2$$

2.

$$5 - 2x = 19$$

3.

$$-7 + 4x = 21$$

4.

$$3(x + 4) = 24$$

5.

$$\frac{1}{3}(x - 6) = 7$$

$$\frac{4}{5}x + 3 = -17$$



Session 8: Guided Practice (We Do)

We Do Together: (Teacher Actions)

> Translate the equation into a phrase to understand the equality. Then, show each step using numbers and symbols to find the solution.

18 =	4 <i>x</i> – 2	2.	2(x + 4) = 16	3.	$\frac{2}{3}x + 6 = 12$

Session 8: Guided Practice (We Do - Continued)

You Do Together: (As a class, or in small groups)

> Students take turns leading to show each step using numbers and symbols to find the solution.

4.

$$2x + 3 = 9$$

5.

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

6.

$$-18 = 3x - 6$$

7.

$$\frac{1}{4}x + 3 = 10$$

8.

$$\frac{2}{3}x - 8 = -2$$

$$1 = \frac{2}{5}x - 13$$

Quick Check - Form H

Name_____ Date____

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

Directions: Solve each equation for x. (Work time: 4 minutes)

1.

$$20 = 6x + 8$$

2.

$$7 - 5x = 32$$

3.

$$-9 + 8x = 15$$

4.

$$4(x + 2) = 28$$

5.

$$\frac{1}{2}(x-4)=10$$

$$\frac{3}{5}x + 5 = -25$$