



# 8<sup>th</sup> Grade Fall Guided Review

Readiness Standard 6 - 7.EE.4a

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will solve multi-step equations for  $x$ .

**1.**

Solve the equation for  $x$ .

$$3x + 1 = 16$$

☐ 4

☐ 5

☐ 6

☐ 45

**2.**

Solve the equation for  $x$ .

$$2(x + 4) = 14$$

☐ 3

☐ 6

☐ 11

☐ 22

**3.**

Solve the equation for  $x$ .

$$3(x - 2) = 18$$

☐ 24

☐ 8

☐ 6

☐ 4



# Quick Check - Form A

8<sup>th</sup> Grade – Readiness Standard 6 – 7.EE.4a

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.**

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

**6.**

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



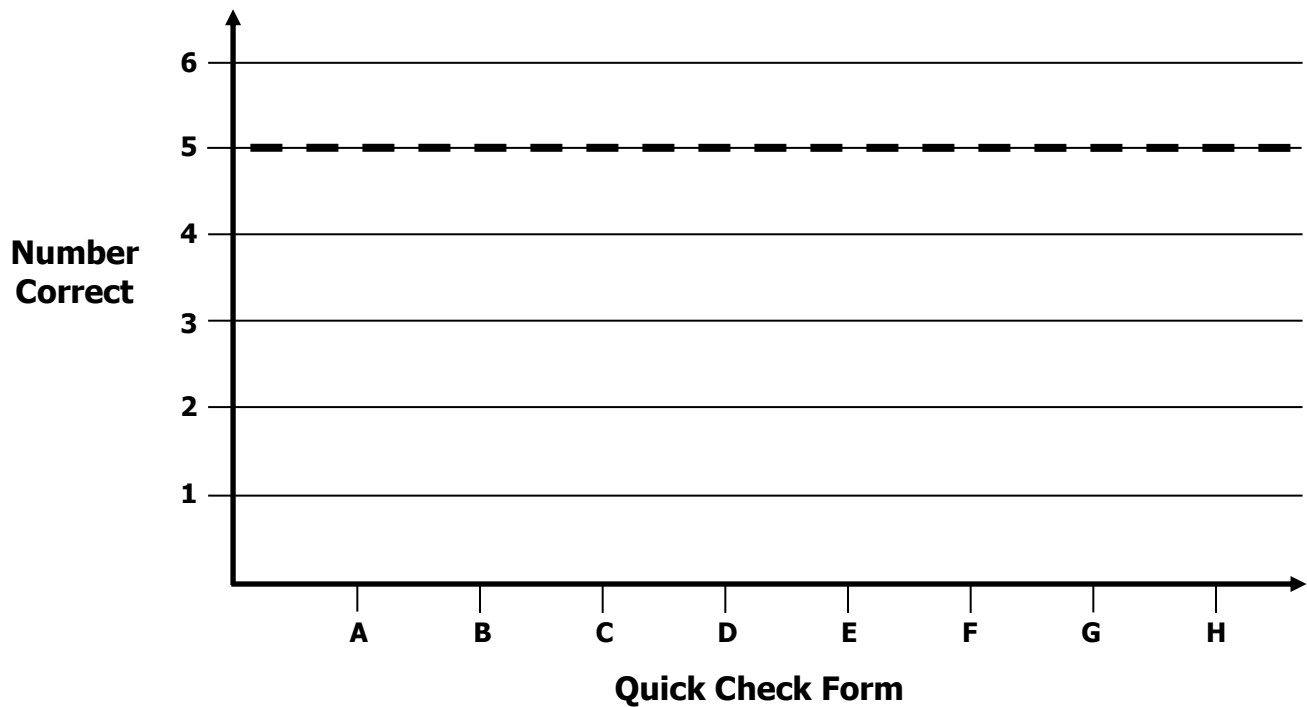
# Growth Chart

8<sup>th</sup> Grade – Readiness Standard 6 – 7.EE.4a

Name \_\_\_\_\_ Date \_\_\_\_\_

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

**Goal:** 5 out of 6 correct



Intervention	Date	Score
Guided Review		



Name \_\_\_\_\_

Date \_\_\_\_\_

**Learning Target:** I will solve equations with more than one step8<sup>th</sup> Grade - RS 6 - 7.EE.4a

## Session 2: Guided Practice (We Do)

**Materials:**

- 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. $-13 = 4x + 3$	4. $4x - 1 = -13$



Name \_\_\_\_\_

Date \_\_\_\_\_

**Learning Target:** I will solve equations with more than one step8<sup>th</sup> Grade - RS 6 - 7.EE.4a

## 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. $2x + 4 = 10$	6. $2x + 4 = -10$
7. $3x - 1 = -13$	8. $3x - 1 = 14$
9. $4x + 2 = -10$	10. $4x - 2 = -10$



# Quick Check - Form B

8<sup>th</sup> Grade – Readiness Standard 6 – 7.EE.4a

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.**

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

**6.**

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

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

8<sup>th</sup> Grade - RS 6 - 7.EE.4a

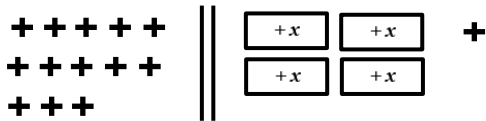
## Session 3: Guided Practice (We Do)

**We Do Together:** (Teacher Actions)

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

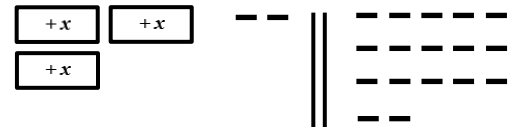
1.

$$13 = 4x + 1$$



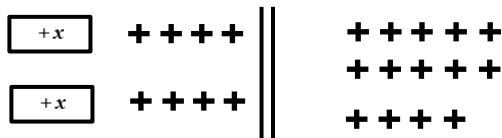
2.

$$3x - 2 = -17$$



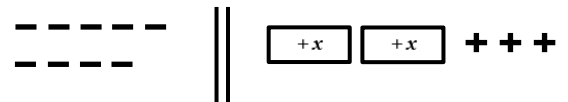
3.

$$2(x + 4) = 14$$



4.

$$-9 = 2x + 3$$



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

8<sup>th</sup> Grade - RS 6 - 7.EE.4a

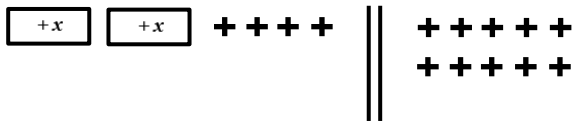
## Session 3: Guided Practice (We Do - Continued)

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

- Students take turns leading to solve each equation.

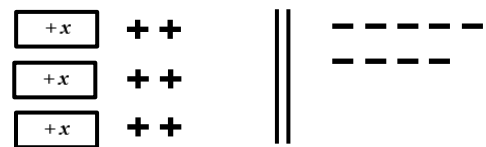
5.

$$2x + 4 = 10$$



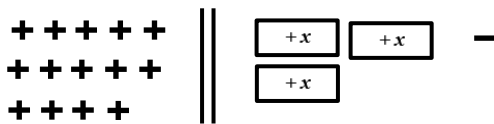
6.

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



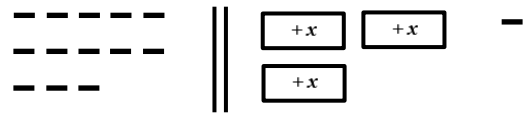
7.

$$14 = 3x - 1$$



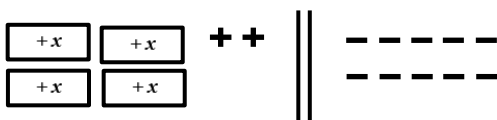
8.

$$-13 = 3x - 1$$



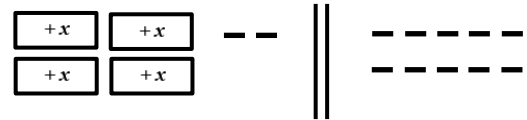
9.

$$4x + 2 = -10$$



10.

$$4x - 2 = -10$$







# Quick Check - Form C

8<sup>th</sup> Grade – Readiness Standard 6 – 7.EE.4a

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.**

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

**6.**

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

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

8<sup>th</sup> Grade - RS 6 - 7.EE.4a

## 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.

<p>1. <i>"1 third of what number plus 3 is equal to 10?"</i></p> $\frac{1}{3}x + 3 = 10$ <div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px; background-color: #00a0e3; color: white;">+ 1</div> <div>+++</div> <div style="border-left: 2px solid black; height: 40px; margin: 0 10px;"></div> <div>+++++</div> </div> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 10px auto;"></div> <p style="text-align: center; font-size: small;">+x-tile</p>	<p>2.</p> $\frac{1}{4}x - 3 = -1$ <div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px; background-color: #00a0e3; color: white;">+ x</div> <div>---</div> <div style="border-left: 2px solid black; height: 40px; margin: 0 10px;"></div> <div>-</div> </div> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 10px auto;"></div> <p style="text-align: center; font-size: small;">+x-tile</p>
<p>3.</p> $1 = \frac{2}{5}x - 5$ <div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div>+</div> <div style="border-left: 2px solid black; height: 40px; margin: 0 10px;"></div> <div style="border: 1px solid black; padding: 2px 5px; background-color: #00a0e3; color: white;">+ 1</div> <div>-----</div> </div> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 10px auto;"></div> <p style="text-align: center; font-size: small;">+x-tile</p>	<p>4.</p> $\frac{3}{4}x + 2 = 17$ <div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px; background-color: #00a0e3; color: white;">+++</div> <div>++</div> <div style="border-left: 2px solid black; height: 40px; margin: 0 10px;"></div> <div>+++++</div> </div> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 10px auto;"></div> <p style="text-align: center; font-size: small;">+x-tile</p>

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

8<sup>th</sup> Grade - RS 6 - 7.EE.4a

## Session 4: 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.

<p>5. "1 fourth of what number plus 2 is equal to 9?"</p> $\frac{1}{4}x + 2 = 9$ <div style="display: flex; align-items: center; justify-content: center; margin: 10px 0;"> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">+x</div> <span style="margin: 0 5px;">+</span> <span style="font-size: 2em;">  </span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> </div> <div style="border: 1px solid black; width: 150px; height: 30px; margin: 10px auto; text-align: center;"> <div style="font-size: 0.8em; margin-top: 5px;">+x-tile</div> </div>	<p>6.</p> $\frac{2}{3}x - 5 = 1$ <div style="display: flex; align-items: center; justify-content: center; margin: 10px 0;"> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">+x</div> <span style="margin: 0 5px;">-</span> <span style="font-size: 2em;">  </span> <span style="margin: 0 5px;">+</span> </div> <div style="border: 1px solid black; width: 150px; height: 30px; margin: 10px auto; text-align: center;"> <div style="font-size: 0.8em; margin-top: 5px;">+x-tile</div> </div>
<p>7.</p> $7 = 3x + 1$ <div style="display: flex; align-items: center; justify-content: center; margin: 10px 0;"> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="font-size: 2em;">  </span> <div style="border: 1px solid black; padding: 2px 5px; margin: 0 5px;">+x</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 0 5px;">+x</div> <span style="margin: 0 5px;">+</span> </div> <div style="border: 1px solid black; width: 150px; height: 30px; margin: 10px auto; text-align: center;"> <div style="font-size: 0.8em; margin-top: 5px;">+x-tile</div> </div>	<p>8.</p> $\frac{1}{3}x - 4 = 2$ <div style="display: flex; align-items: center; justify-content: center; margin: 10px 0;"> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">+x</div> <span style="margin: 0 5px;">-</span> <span style="font-size: 2em;">  </span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> </div> <div style="border: 1px solid black; width: 150px; height: 30px; margin: 10px auto; text-align: center;"> <div style="font-size: 0.8em; margin-top: 5px;">+x-tile</div> </div>
<p>9.</p> $10 = \frac{3}{5}x - 2$ <div style="display: flex; align-items: center; justify-content: center; margin: 10px 0;"> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="font-size: 2em;">  </span> <div style="border: 1px solid black; padding: 2px 5px; margin: 0 5px;">+x</div> <span style="margin: 0 5px;">-</span> <span style="margin: 0 5px;">-</span> </div> <div style="border: 1px solid black; width: 150px; height: 30px; margin: 10px auto; text-align: center;"> <div style="font-size: 0.8em; margin-top: 5px;">+x-tile</div> </div>	<p>10.</p> $4x + 5 = 17$ <div style="display: flex; align-items: center; justify-content: center; margin: 10px 0;"> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">+x</div> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">+x</div> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">+x</div> <div style="border: 1px solid black; padding: 2px 5px; margin-right: 5px;">+x</div> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="font-size: 2em;">  </span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> <span style="margin: 0 5px;">+</span> </div>



# Quick Check - Form D

8<sup>th</sup> Grade – Readiness Standard 6 – 7.EE.4a

Name \_\_\_\_\_ Date \_\_\_\_\_

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

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

<b>1.</b> $20 = 6x + 8$	<b>2.</b> $7 - 5x = 32$
<b>3.</b> $-9 + 8x = 15$	<b>4.</b> $4(x + 2) = 28$
<b>5.</b> $\frac{1}{2}(x - 4) = 10$	<b>6.</b> $\frac{3}{5}x + 5 = -25$



Name \_\_\_\_\_

Date \_\_\_\_\_

**Learning Target:** I will solve equations with more than one step8<sup>th</sup> Grade - RS 6 - 7.EE.4a

## Session 5: 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.

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

Date \_\_\_\_\_

**Learning Target:** I will solve equations with more than one step8<sup>th</sup> Grade - RS 6 - 7.EE.4a

## Session 5: 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. $\frac{2}{3}x - 5 = 1$	9. $1 = \frac{2}{5}x - 5$



# Quick Check - Form E

8<sup>th</sup> Grade – Readiness Standard 6 – 7.EE.4a

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.**

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

**6.**

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

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

8<sup>th</sup> Grade - RS 6 - 7.EE.4a

## 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.

<p>1.</p> $14 = 4x + 2$ <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <p>+++++</p> <p>+++++</p> <p>++++</p> </div> <div style="margin: 0 10px;">  </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">+x</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">+x</div> <div style="margin: 0 5px;">+</div> <div style="margin: 0 5px;">+</div> </div> </div>	<p>2.</p> $3x - 4 = -19$ <div style="display: flex; align-items: center; justify-content: center;"> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">+x</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">+x</div> </div> <div style="margin: 0 10px;">----</div> <div style="margin: 0 10px;">  </div> <div style="text-align: center;"> <p>-----</p> <p>-----</p> <p>-----</p> <p>-----</p> </div> </div>
<p>3.</p> $2(x + 5) = 16$ <div style="display: flex; align-items: center; justify-content: center;"> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">+x</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">+x</div> </div> <div style="margin: 0 10px;">+++++</div> <div style="margin: 0 10px;">  </div> <div style="text-align: center;"> <p>+++++</p> <p>+++++</p> <p>+++++</p> <p>+</p> </div> </div>	<p>4.</p> $-8 = 2x + 4$ <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <p>-----</p> <p>---</p> </div> <div style="margin: 0 10px;">  </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">+x</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">+x</div> <div style="margin: 0 5px;">+</div> <div style="margin: 0 5px;">+</div> <div style="margin: 0 5px;">+</div> <div style="margin: 0 5px;">+</div> </div> </div>



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

8<sup>th</sup> Grade - RS 6 - 7.EE.4a

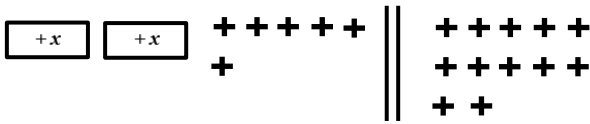
## Session 6: Guided Practice (We Do - Continued)

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

- Students take turns leading to solve each equation.

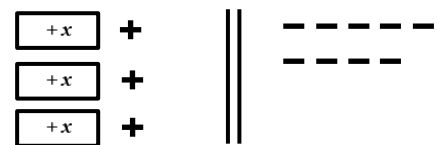
5.

$$2x + 6 = 12$$



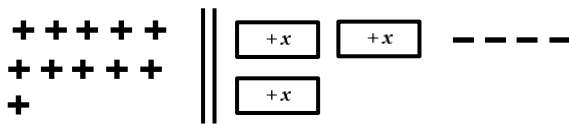
6.

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



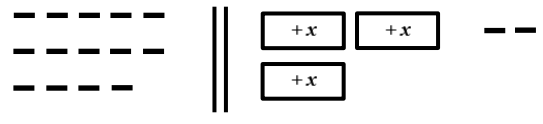
7.

$$11 = 3x - 4$$



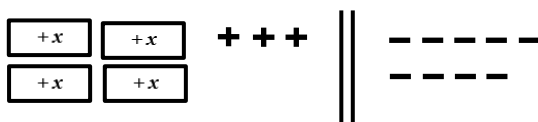
8.

$$-14 = 3x - 2$$



9.

$$4x + 3 = -9$$



10.

$$4x - 3 = -11$$





# Quick Check - Form F

8<sup>th</sup> Grade – Readiness Standard 6 – 7.EE.4a

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.**

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

**6.**

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

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

8<sup>th</sup> Grade - RS 6 - 7.EE.4a

## Session 7: 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.

<p>1. <i>"1 third of what number plus 5 is equal to 12?"</i></p> $\frac{1}{3}x + 5 = 12$ <div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px; display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: blue;"></div> <div style="width: 10px; height: 10px; background-color: white; border: 1px solid black; display: flex; align-items: center; justify-content: center;">+</div> <div style="width: 10px; height: 10px; background-color: white; border: 1px solid black; display: flex; align-items: center; justify-content: center;">x</div> </div> <div>+++++</div> <div style="border-left: 3px double black; height: 40px; margin: 0 10px;"></div> <div>+++++ +++++ ++</div> </div> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 10px auto;"></div> <p style="text-align: center; font-size: small;">+x-tile</p>	<p>2.</p> $\frac{1}{4}x - 5 = -3$ <div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px; display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: blue;"></div> <div style="width: 10px; height: 10px; background-color: white; border: 1px solid black; display: flex; align-items: center; justify-content: center;">+</div> <div style="width: 10px; height: 10px; background-color: white; border: 1px solid black; display: flex; align-items: center; justify-content: center;">x</div> </div> <div>-----</div> <div style="border-left: 3px double black; height: 40px; margin: 0 10px;"></div> <div>-----</div> </div> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 10px auto;"></div> <p style="text-align: center; font-size: small;">+x-tile</p>
<p>3.</p> $2 = \frac{2}{5}x - 4$ <div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div>++</div> <div style="border-left: 3px double black; height: 40px; margin: 0 10px;"></div> <div style="border: 1px solid black; padding: 2px; display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: blue;"></div> <div style="width: 10px; height: 10px; background-color: blue;"></div> <div style="width: 10px; height: 10px; background-color: white; border: 1px solid black; display: flex; align-items: center; justify-content: center;">+</div> <div style="width: 10px; height: 10px; background-color: white; border: 1px solid black; display: flex; align-items: center; justify-content: center;">x</div> </div> <div>-----</div> </div> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 10px auto;"></div> <p style="text-align: center; font-size: small;">+x-tile</p>	<p>4.</p> $\frac{3}{4}x + 1 = 16$ <div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px; display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: blue;"></div> <div style="width: 10px; height: 10px; background-color: blue;"></div> <div style="width: 10px; height: 10px; background-color: blue;"></div> <div style="width: 10px; height: 10px; background-color: white; border: 1px solid black; display: flex; align-items: center; justify-content: center;">+</div> </div> <div>+</div> <div style="border-left: 3px double black; height: 40px; margin: 0 10px;"></div> <div>+++++ +++++ +++++ +</div> </div> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 10px auto;"></div> <p style="text-align: center; font-size: small;">+x-tile</p>

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

8<sup>th</sup> Grade - RS 6 - 7.EE.4a

## Session 7: 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.

<p>5. "1 fourth of what number plus 2 is equal to 9?"</p> $\frac{1}{4}x + 3 = 10$ <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">+x</div> <div style="margin: 0 10px;">+</div> <div style="margin: 0 10px;">+</div> <div style="margin: 0 10px;">+</div> <div style="margin: 0 10px;">  </div> <div style="display: flex; flex-direction: column; align-items: center;"> <div>+++++</div> <div>+++++</div> </div> </div> <div style="border: 1px solid black; width: 150px; height: 30px; margin: 10px auto;"></div> <p style="text-align: center; font-size: small;">+x-tile</p>	<p>6.</p> $\frac{2}{3}x - 2 = 4$ <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">+x</div> <div style="margin: 0 10px;">-</div> <div style="margin: 0 10px;">-</div> <div style="margin: 0 10px;">  </div> <div style="display: flex; flex-direction: column; align-items: center;"> <div>+++</div> <div>+++</div> </div> </div> <div style="border: 1px solid black; width: 150px; height: 30px; margin: 10px auto;"></div> <p style="text-align: center; font-size: small;">+x-tile</p>
<p>7.</p> $8 = 3x + 2$ <div style="display: flex; align-items: center; justify-content: center;"> <div style="display: flex; flex-direction: column; align-items: center;"> <div>+++++</div> <div>+++</div> </div> <div style="margin: 0 10px;">  </div> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin: 2px;">+x</div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">+x</div> </div> <div style="margin: 0 10px;">+</div> <div style="margin: 0 10px;">+</div> </div>	<p>8.</p> $\frac{1}{3}x - 2 = 4$ <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">+x</div> <div style="margin: 0 10px;">-</div> <div style="margin: 0 10px;">-</div> <div style="margin: 0 10px;">  </div> <div style="display: flex; flex-direction: column; align-items: center;"> <div>+++</div> <div>+++</div> </div> </div> <div style="border: 1px solid black; width: 150px; height: 30px; margin: 10px auto;"></div> <p style="text-align: center; font-size: small;">+x-tile</p>
<p>9.</p> $9 = \frac{3}{5}x - 3$ <div style="display: flex; align-items: center; justify-content: center;"> <div style="display: flex; flex-direction: column; align-items: center;"> <div>+++++</div> <div>++++</div> </div> <div style="margin: 0 10px;">  </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">+x</div> <div style="margin: 0 10px;">-</div> <div style="margin: 0 10px;">-</div> <div style="margin: 0 10px;">-</div> </div> </div> <div style="border: 1px solid black; width: 150px; height: 30px; margin: 10px auto;"></div> <p style="text-align: center; font-size: small;">+x-tile</p>	<p>10.</p> $4x + 6 = 18$ <div style="display: flex; align-items: center; justify-content: center;"> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin: 2px;">+x</div> <div style="border: 1px solid black; padding: 2px; margin: 2px;">+x</div> </div> <div style="margin: 0 10px;">+</div> <div style="margin: 0 10px;">+</div> <div style="margin: 0 10px;">+</div> <div style="margin: 0 10px;">+</div> <div style="margin: 0 10px;">+</div> <div style="margin: 0 10px;">  </div> <div style="display: flex; flex-direction: column; align-items: center;"> <div>+++++</div> <div>+++++</div> <div>+++++</div> <div>++++</div> </div> </div>



# Quick Check - Form G

8<sup>th</sup> Grade – Readiness Standard 6 – 7.EE.4a

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.**

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

**6.**

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



Name \_\_\_\_\_

Date \_\_\_\_\_

**Learning Target:** I will solve equations with more than one step8<sup>th</sup> Grade - RS 6 - 7.EE.4a

## 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.

<b>1.</b> $18 = 4x - 2$	<b>2.</b> $2(x + 4) = 16$	<b>3.</b> $\frac{2}{3}x + 6 = 12$
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Name \_\_\_\_\_

Date \_\_\_\_\_

**Learning Target:** I will solve equations with more than one step8<sup>th</sup> Grade - RS 6 - 7.EE.4a

## 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. $\frac{2}{3}x - 8 = -2$	9. $1 = \frac{2}{5}x - 13$



# Quick Check - Form H

8<sup>th</sup> Grade – Readiness Standard 6 – 7.EE.4a

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.**

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

**6.**

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