

Name: _____ Algebra 9 Unit 2 Lesson 3

Solving Two-Step Equations

DO NOW ~ Wednesday 10/16

Solve the following equation and do a quick check.

$$\begin{array}{r|l} 5z = -25 & \\ \hline 5 & 5 \\ \hline z = -5 & \end{array}$$



Classwork

Solve the following equations and do a quick check.

$$\begin{array}{r|l} \frac{a}{4} + 2 = 6 & \text{Check:} \\ \hline -2 & -2 \\ \hline \frac{a}{4} = 4 & \\ \hline 4 \cdot \frac{a}{4} = 4 \cdot 4 & \\ \hline a = 16 & \end{array}$$

$$\begin{array}{r|l} -6 + \frac{x}{4} = -5 & \text{Check:} \\ \hline +6 & +6 \\ \hline \frac{x}{4} = 1 & \\ \hline 4 \cdot \frac{x}{4} = 1 \cdot 4 & \\ \hline x = 4 & \end{array}$$

$$\begin{array}{r|l} 3x + 4 = -14 & \text{Check:} \\ \hline -4 & -4 \\ \hline 3x = -18 & \\ \hline \frac{3x}{3} = \frac{-18}{3} & \\ \hline x = -6 & \end{array}$$

$$\begin{array}{r|l} -4 + 4x = 4 & \text{Check:} \\ \hline +4 & +4 \\ \hline 4x = 8 & \\ \hline \frac{4x}{4} = \frac{8}{4} & \\ \hline x = 2 & \end{array}$$

DO NOW ~ Thursday 10/17

Solve the following equation. Show all of your work and complete a check.

$$\frac{g}{2} - 10 = -6$$

$$\begin{array}{r|l} +10 & +10 \\ \hline 2 \cdot \frac{g}{2} & = 4 \cdot 2 \\ \hline g & = 8 \end{array}$$

Check: $\frac{8}{2} - 10 = -6$
 $4 - 10 = -6$
 $-6 = -6$

STOP STOP STOP

Classwork

Solve the following equations and do a quick check.

$$2 + \frac{v}{4} = -2$$

$$\begin{array}{r|l} -2 & -2 \\ \hline 4 \cdot \frac{v}{4} & = -4 \cdot 4 \\ \hline v & = -16 \end{array}$$

Check:

$$-8 - 6x = 10$$

$$\begin{array}{r|l} +8 & +8 \\ \hline -6x & = 18 \\ \hline -6 & -6 \\ \hline x & = -3 \end{array}$$

Check:

$$-3x - 1 = -25$$

$$\begin{array}{r|l} +1 & +1 \\ \hline -3x & = -24 \\ \hline -3 & -3 \\ \hline x & = 8 \end{array}$$

Check:

$$5 + \frac{r}{2} = -4$$

$$\begin{array}{r|l} -5 & -5 \\ \hline \frac{r}{2} & = -9 \cdot 2 \\ \hline r & = -18 \end{array}$$

Check:

DO NOW ~ Friday 10/18

Solve the following equation. Show all of your work.

$$\begin{array}{r|l} -9x+1 & = -80 \\ \hline -9x & = -81 \\ \hline x & = 9 \end{array}$$



Classwork

Solve the following equations and do a quick check.

$$\begin{array}{r|l} 8n+7 & = 31 \\ \hline 8n & = 24 \\ \hline n & = 3 \end{array}$$

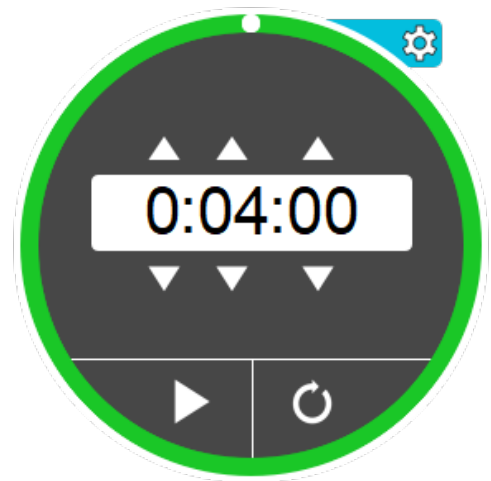
$$\begin{array}{r|l} -10 & = -10 + 7m \\ \hline +10 & +10 \\ \hline 0 & = 7m \\ \hline 0 & = m \end{array}$$

$$\begin{array}{r|l} -6 + \frac{x}{4} & = -5 \\ \hline +6 & +6 \\ \hline \frac{x}{4} & = 1 \\ \hline 4 \cdot \frac{x}{4} & = 4 \\ \hline x & = 4 \end{array}$$

$$\begin{array}{r|l} 0 = 4 + \frac{n}{5} \\ \hline -4 & -4 \\ \hline -4 & = \frac{n}{5} \\ \hline 5 \cdot -4 & = n \\ \hline -20 & = n \end{array}$$

To earn your full participation point for the Do Now be sure to have completed all of the following by the time is up:

- 1) Be in your seat
- 2) Take out your calculator
- 3) Have last night's homework out
- 4) Complete the do now



DO NOW ~ Monday 10/21

Solve the following equation. Show all of your work.

$$-4b - 5 = 20$$

$$\begin{array}{r|l} +5 & +5 \\ \hline -4b & = \frac{25}{-4} \\ \hline -4 & -4 \end{array}$$

$$b = -6.25$$



Classwork

Solve the following equations and do a quick check.

$$27 - 12f = -23$$

$$\begin{array}{r|l} -27 & -27 \\ \hline -12f & = -50 \\ \hline -12 & -12 \end{array}$$

$$f = 4.1\bar{6}$$

$$-17 + \frac{2}{7}n = 16$$

$$\begin{array}{r|l} +17 & +17 \\ \hline \frac{2}{7}n & = 33.\bar{7} \\ \hline \frac{2}{7} & \frac{2}{7} \end{array}$$

$$n = 115.5$$

$$\frac{1}{4}k + 14 = 26$$

$$\begin{array}{r|l} -14 & -14 \\ \hline \frac{1}{4}k & = 12.4 \\ \hline \frac{1}{4} & \frac{1}{4} \end{array}$$

$$k = 49.6$$

$$18s - 6 = 14$$

$$\begin{array}{r|l} +6 & +6 \\ \hline 18s & = 20 \\ \hline 18 & 18 \end{array}$$

$$s = 1.1\bar{1} \text{ or } \frac{10}{9}$$

Mrs. Ferreri's Station ~ Solving Two-Step Equations

Solve the following equations and check.

$$-11 - 7x = 10$$

$$1 - 7x = -27$$

$$\frac{n}{5} + 4 = 0$$

$$-5 + \frac{r}{20} = -4$$

$$\frac{g}{2} - 10 = -6$$

$$2 + \frac{v}{4} = -2$$

$$-9 + \frac{n}{4} = -7$$

$$2n + 9 = 7$$

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$$2m + 5 = 9$$

$$\frac{c}{-2} - 4 = 3$$

$$-4x + 3 = 7$$

$$\frac{n}{-3} - 2 = 3$$

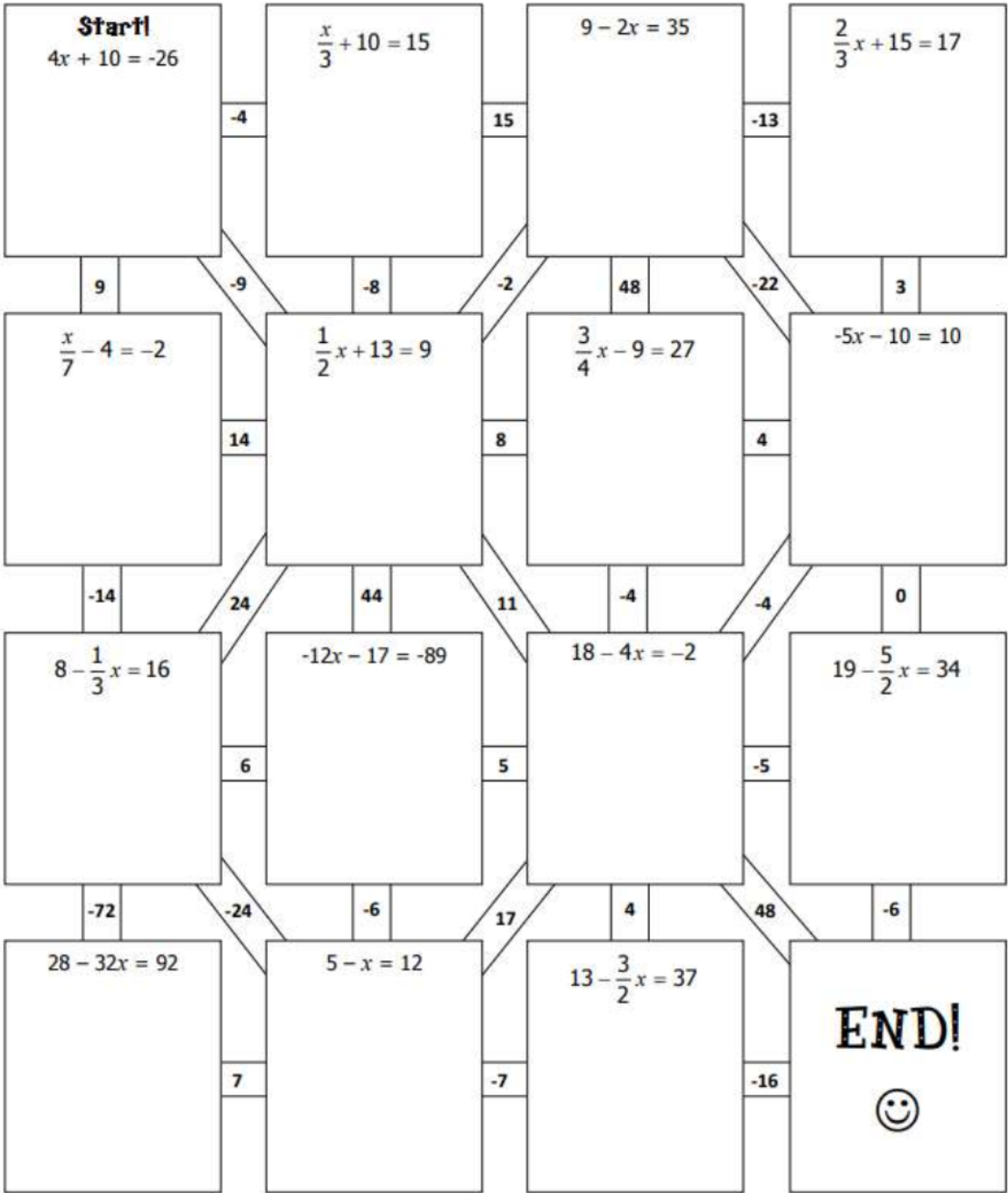
$$-6g - 9 = 27$$

$$\frac{x}{5} + 7 = 2$$

$$5x + 4 = -11$$

$$3 + 2x = 9$$

Continue onto the next page.



Computer Station ~ Delta Math

Log into Delta Math and complete the “One-Step Equations” Assignment. Be sure to complete all 4 types. Use the space below to show your work.

Mrs. Kennedy’s Station ~ Task Cards

Use the space below to solve the equations using the task cards.

Continue onto the next page.

	<i>Continue onto the next page.</i>

Continue onto the next page.

Solve. Be sure to show all of your work.

1) $6 = \frac{a}{4} + 2$

2) $-6 + \frac{x}{4} = -5$

3) $9x - 7 = -7$

4) $0 = 4 + \frac{n}{5}$

5) $-4 = \frac{r}{20} - 5$

6) $-6 = \frac{n}{2} - 10$

9) $-9x + 1 = -80$

10) $-6 = \frac{n}{2} - 10$

11) $-2 = 2 + \frac{v}{4}$

12) $144 = -12(x + 5)$

Independent Station ~ Scavenger Hunt

Complete the Scavenger Hunt. Show your work in the space provided below.

Continue onto the next page.

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Solve the following equations. Check by using the QR code scanner if you have one. You may use a whiteboard or the following chart to show your work.

1)	2)	3)
4)	5)	6)
7)	8)	9)
10)	11)	12)
13)	14)	15)
16)	17)	18)
19)	20)	21)
22)	23)	24)

Homework ~ Wednesday 10/16

Solve the following equations and complete a check.

$$5z - 27 = 8$$

Check:

$$\frac{w}{-3} + 7 = 10$$

Check:

$$-2 + 6y = 10$$

Check:

$$4 + \frac{c}{3} = 9$$

Check:

Homework ~ Thursday 10/17

Solve the following equations and complete a check.

$$-4z - 7 = 9$$

Check:

$$\frac{w}{-6} - 7 = -4$$

Check:

$$-1 + 3y = 8$$

Check:

$$9 + \frac{k}{2} = 11$$

Check:

Homework ~ Monday 10/21

Solve the following equations and complete a check.

$$-3z - 8 = 13$$

Check:

$$-2 = 2 + \frac{v}{4}$$

Check:

$$-2 + 4y = 10$$

Check:

$$-6 + \frac{x}{4} = -5$$

Check: