

CWCTC Conko – Period 3 Pre-Test

Conko Per. 3-CWCTC

Lisa Anthony

Unit 18 Review of Linear Equations – Form A

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$7 + 5y = 2$$

$$\cancel{7} + 5y = 2$$

$$5y = 2$$

$$\frac{5y}{5} = \frac{2}{5}$$

$$y = 0.4$$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$

$$\cancel{x} \cancel{-5} - \cancel{8} = -2 - 8$$

$$\frac{x}{-5} = -10$$

$$\frac{x}{-5 \times 5} = -10 \times 5$$

$$x = 50$$

3) Solve for x:

$$4x + 8x = 9$$

$$12x = 9$$

$$\frac{12x}{12} = \frac{9}{12}$$

$$x = 0.75$$

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$7y + (-8) = 5$ $7y + (-\cancel{8} \times 8) = 5 - 8$ $\cancel{7}y = \frac{13}{7}$ $y = 1.857$	First I subtracted -8 from -8 & from -8 next I divided 7 from 7y 3 from thirteen and got the answer

7) Solve for x:

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

$$-2.8 + 16.9x = (-3.4)$$

$$\cancel{-2.8} - \cancel{2.8} + 16.9x = (-3.4 - \cancel{2.8})$$

$$\frac{16.9x}{16.9} = \frac{-0.6}{16.9}$$

$$x = 0.035$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why
$4.1y + \cancel{12.3} - 12.3 = (-9.2) - 12.3$ $\frac{4.1y}{4.1} = \frac{-21.5}{4.1}$ $y = -5.243$	

9) Solve for x:

$$\frac{4x+12}{3} = -9x$$

$$4x + 4 = -9x$$

$$4x + \cancel{4} = -9x + 4$$

$$\cancel{-4} = \frac{4}{-9}$$

$$x = -0.8$$

10) Solve for x:

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

$$64.94x + 19.1 = 12.8$$

$$64.94x + \cancel{19.1} = 12.8 - 19.1$$

$$64.94x = -6.3$$

$$\frac{64.94x}{64.94} = \frac{-6.3}{64.94}$$

$$x = -0.0970$$

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1) Solve for y

$$7 + 5y = 2$$

$$7 + 5y = 2 - 7$$

$$5y = -5$$

$$y = -1$$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$

$$\frac{x}{-5} + 8 = -2$$

$$\frac{x}{-5} = -10$$

$$\frac{x}{-5} = -10$$

$$x = 50$$

3) Solve for x:

$$4x + 8x = 9$$

$$\frac{12x}{12} = \frac{9}{12}$$

$$x = .75$$

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$3y + (-8) = 5 + 4y$ $3y + (-8) + 8 = 5 + 4y + 8$ $3y = 13 + 4y$ $3y = 13 + 4y$ $\frac{7y}{7} = \frac{13}{7}$ $y = 18$	<p>Add 8 on both sides</p> <p>Then add like terms</p> <p>Then divide by 7</p> <p>And get $y = 18$</p>

5) Solve for y:

$$6 + (-7y) = -1 + 2y$$

$$6 + (-7y) = -1 + 2y + 7y$$

$$6 = -1 + 9y$$

$$1 + 6 = -1 + 9y + 1$$

$$7 = 9y$$

$$\frac{7}{9} = \frac{9y}{9}$$

$$y = \frac{7}{9}$$

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why
$-3.2x + 4.1 = 12.8 + 6.4x$ $-3.2x + 4.1 - 4.1 = 12.8 + 6.4x - 4.1$ $-3.2x = 8.7 + 6.4x$ $-6.4x - 3.2x = 8.7 + 6.4x - 6.4x$ $-9.6x = 8.7$ $\frac{-9.6x}{-9.6} = \frac{8.7}{-9.6}$ $x = -110$	<p>First subtract 4.1</p> <p>Then add like terms</p> <p>Subtract 6.4x</p> <p>Divide by -9.6</p> <p>$x = -110$</p>

7) Solve for x:

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

$$-3.4 - 2.8 + 5.1x = 11.8x + (-3.4)$$

$$-6.2 + 5.1x = 11.8x$$

$$-6.2 + 16.9x = 0 - 6.2$$

$$\frac{16.9}{16.9} = \frac{-6.2}{16.9}$$

$$x = .36$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why
$-9.2y + 12.3 = -4.1y + (-9.2)$ $y + 3.1 = -4.1y$ $\frac{3.4}{3.4} = \frac{-4.1y}{3.4}$ $y = 1.2$	<p>subtract -9.2 from both sides</p> <p>combine like terms</p> <p>divide by 3.4</p> <p>get y = 1.2</p>

9) Solve for x:

$$\frac{4x+12}{3} = -9x$$

$$\frac{4x}{3} + \frac{12}{3} = -9x$$

$$1.3x + 4 = -9x$$

$$\frac{-10.3x}{4} = \frac{4}{4}$$

$$x = 2.515$$

10) Solve for x:

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

$$\begin{array}{r} 14.1x \\ -8.2x \\ \hline 5.9x \end{array}$$

$$\begin{array}{r} 19.1 \\ +12.8 \\ \hline 31.9 \end{array}$$

$$\frac{31.9}{5.9} = \frac{23.5x}{5.9}$$

$$x = 2.3$$

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You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$\begin{aligned} y + 5y &= 2 \\ 6y &= 2 \\ y &= \frac{2}{6} \\ y &= \frac{1}{3} \end{aligned}$$

2) Solve for x:

$$\begin{aligned} \frac{x}{-5} + 8 &= -2 \\ \frac{x}{-5} &= -10 \\ x &= 50 \end{aligned}$$

3) Solve for x:

$$-4x + 8x = 9$$

$$4x = 9$$

$$x = \frac{9}{4}$$

$$x = .75$$

Don't know how to do

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here

For each step, explain why

5) Solve for y :

$$6 + (-7y) = -1 + 2y$$

6) Solve for x :

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why

7) Solve for x :

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

8) Solve for y :

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why

9) Solve for x :

$$\frac{4x+12}{3} = -9x$$

10) Solve for x :

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

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You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$7 + 5y = 2$$

$$y = -13$$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$

$$x = -3$$

3) Solve for x:

$$4x + 8x = 9$$

$$x = -1$$

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$\begin{array}{r} 3y + (-8) = 5 + 4y \\ 3y + (-8) = 9y \\ -8 \quad -8 \\ -5y = 1y \\ y = -4 \end{array}$	<p>First I added the numbers that needed to be added. Then I subtracted eight from the two numbers. Finally I added $-5y + 1y$ and got the sum of $-4 = y$.</p>

5) Solve for y:

$$6 + (-7y) = -1 + 2y$$

$$y = 6$$

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why
$-3.2x + 4.1 = 12.8 + 6.4x$ $1.3x \quad 18.12x$ $x = 10$	First I added and then I subtracted on the calculator and then I got the sum of 10 = x.

7) Solve for x:

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

$$x = -9$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why
$y + 12.3 = -4.1y + (-9.2)$ $y = -2$	First I added the y's together then I got my answer of $-2 = y$.

9) Solve for x :

$$\frac{4x+12}{3} = -9x$$

$$x = -5$$

10) Solve for x :

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

$$x = -12$$

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You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$7 + 5y = 2$$

$$\begin{array}{r} 7 + 5y = 2 \\ -7 \quad -7 \\ \hline 5y = -5 \end{array}$$

$$\frac{5y}{5} = \frac{-5}{5}$$

$$\boxed{y = -1}$$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$

$$\begin{array}{r} \frac{x}{-5} + 8 = -2 \\ -8 \quad -8 \\ \hline \end{array}$$

$$\frac{x}{-5} = -10$$

$$\frac{x}{-5} \cdot (-5) = -10 \cdot (-5)$$

$$\boxed{x = 50}$$

3) Solve for x:

$$\begin{aligned} 4x + 8x &= 9 \\ 12x &= 9 \\ \frac{12x}{12} &= \frac{9}{12} \\ x &= 0.75 \end{aligned}$$

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$\begin{aligned} 3y + (-8) &= 5 + 4y \\ 4y - 3y + (-8) &= 5 + 4y - 4y \\ y + (-8) &= 5 \\ y + (-8) &= 5 \\ \underline{-(-8) \quad -(-8)} & \\ y &= 13 \end{aligned}$	<p>original problem</p> <p>subtract $4y$ from each side</p> <p>add/subtract</p> <p>subtract -8 from both sides and subtract</p>

5) Solve for y:

$$6 + (-7y) = -1 + 2y$$

$$6 + (-7y) = -1 + 2y$$

$$\begin{array}{r} 6 + (-7y) = -1 + 2y \\ + 2y \quad \quad - 2y \\ \hline \end{array}$$

$$6 - 5y = -1$$

$$\begin{array}{r} 6 - 5y = -1 \\ -6 \quad \quad -6 \\ \hline \end{array}$$

$$-5y = -7$$

$$\frac{-5y}{-5} = \frac{-7}{-5}$$

$$y = 1.4$$

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why
$-3.2x + 4.1 = 12.8 + 6.4x$	original problem
$\begin{array}{r} -3.2x + 4.1 = 12.8 + 6.4x \\ -6.4x \quad \quad -6.4x \\ \hline \end{array}$	subtract $6.4x$ from each side
$-9.6x + 4.1 = 12.8$	subtract
$\begin{array}{r} -9.6x + 4.1 = 12.8 \\ -4.1 \quad -4.1 \\ \hline \end{array}$	subtract 4.1 from each side
$-9.6x = -1.3$	subtract
$\begin{array}{r} -9.6x = -1.3 \\ \hline \end{array}$	divide -9.6 from each side
$\frac{-9.6x}{-9.6} = \frac{-1.3}{-9.6}$	divide
$x = 0.13541666$	

7) Solve for x:

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

$$\begin{array}{r} -2.8 + 5.1x = 11.8x + (-3.4) \\ -11.8x \quad -11.8x \\ \hline -2.8 + -6.7x = -3.4 \end{array}$$

$$\begin{array}{r} -2.8 + -6.7x = -3.4 \\ -(-2.8) \quad -(-2.8) \\ \hline -6.7x = -0.6 \\ \frac{-6.7x}{-6.7} = \frac{-0.6}{-6.7} \end{array}$$

$$x = 0.089552238$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why
$y + 12.3 = -4.1y + (-9.2)$	original problem
$y + 12.3 = -4.1y + (-9.2)$ $+(-4.1y) \quad +(-4.1y)$	add $-4.1y$ to both sides
$-3.1y + 12.3 = -9.2$ $-12.3 \quad -12.3$	subtract -12.3 from both sides
$-3.1y = -21.5$ $\frac{-3.1y}{-3.1} = \frac{-21.5}{-3.1}$	divide -3.1 from both sides
$y = 6.935483871$	answer

9) Solve for x:

$$\frac{4x+12}{3} = -9x$$

$$\frac{4x+12}{3} = -9x$$

$$\frac{4x - 4x + 12}{3} = -9x - 4x$$

$$\frac{12}{3} = -5x$$

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

$$-0.8 = x$$

10) Solve for x:

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$
$$-(-6.2x)$$

$$12.1x + 19.1 = 12.8$$
$$-19.1 \quad -19.1$$

$$12.1x = -6.3$$
$$\frac{12.1}{12.1} \quad \frac{-6.3}{12.1}$$

$$x = -0.52066157$$

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Unit 18 Review of Linear Equations – Form A

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$-7 + 5y = 2$$

$$5y = -5$$

$$y = -1$$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$

$$\frac{x}{-5} = -10$$

$$x = 50$$

3) Solve for x:

$$4x + 8x = 9$$

$$12x = 9$$

$$x = 0.75$$

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$3y + (-8) = 5 + 4y$	① I re-copied the problem
$3y = 5 + 4y - 8$	② I subtracted 8 from both sides
$-1y = 5 - 8$	③ I subtracted 4y from both sides
$-1y = -3$	④ I combined like terms
$\frac{-1y}{-1} = \frac{-3}{-1} \rightarrow y = 3$	⑤ I divided to get y by itself

5) Solve for y:

$$6 + (-7y) = -1 + 2y$$

$$\downarrow$$

$$6 - 7y = -1 + 2y$$

\downarrow

$$-7y = -1 + 2y - 6$$

\downarrow

$$-9y = 1 - 6$$

\downarrow

$$\frac{9y}{9} = \frac{-5}{9}$$

$$y = -0.\overline{5}$$

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why
$-3.2x + 4.1 = 12.8 + 6.4x$	① I re-copied the problem
$-3.2x = 12.8 + 6.4x - 4.1$	② I subtracted 4.1 from both sides
$-9.6x = 12.8 - 4.1$	③ I subtracted 6.4x from both sides
$-9.6x = 8.7$	④ I combined like terms
$\frac{-9.6x}{-9.6} = \frac{8.7}{-9.6} \rightarrow x = 0.90625$	⑤ I divided to get x by itself

7) Solve for x:

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

$$-2.8 + 5.1x = 11.8x - 3.4$$



$$5.1x = 11.8x - 3.4 + 2.8$$



$$-6.7x = -3.4 + 2.8$$



$$\frac{-6.7x}{-6.7} = \frac{-0.6}{-6.7}$$

$$x = 0.0895$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why
$y + 12.3 = -4.1y - 9.2$	① I re-copied the problem
$y = 4.1y - 9.2 - 12.3$	② I subtracted 12.3 from both sides
$-3.1y = -9.2 - 12.3$	③ I subtracted 4.1y from both sides
$-3.1y = -21.5$	④ I combined like terms
$\frac{-3.1y}{-3.1} = \frac{-21.5}{3.1} \rightarrow y = -6.9354$	⑤ I divided to get y by itself

9) Solve for x:

$$\frac{4x + 12}{3} = -9x$$

$$4x + 12 = -9x - 12x$$

$$36 = -21x$$

$$x = -1.71428$$

10) Solve for x:

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

$$14.1x + 19.1 - 8.2x = -6.2x + 12.8$$

$$5.9x + 19.1 = -6.2x + 12.8$$

$$5.9x = -6.2x - 16.3$$

$$3.3x = -16.3$$

$$x = 4.\overline{93}$$

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Unit 18 Review of Linear Equations – Form A

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$7 + 5y = 2$$

$$y = -1$$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$

$$x = 50$$

3) Solve for x:

$$4x + 8x = 9$$



$$4x + 8x = 9$$

$$\frac{4x}{12x} = 9$$

$$x = 0.75$$

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$3y + (-8) = 5 + 4y$ $\frac{3y}{(-8)} = 5 + 7y$ $\frac{5}{3} = 7y$	

5) Solve for y:

$$6 + (-7y) = -1 + 2y$$

$$\begin{array}{r} 2y \\ 6 + -7y = -1 \end{array}$$

$$\begin{array}{r} 6 \\ -7y = -5 - 1 \end{array}$$

$$y = -1$$

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why

7) Solve for x:

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

$$\begin{array}{r} \underline{11.8x} \\ -2.8 + 16.9x = -3.4 \\ -2.8 \end{array}$$

$$16.9x = -6.2$$

$$x = -2.7$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why

9) Solve for x:

$$\frac{4x+12}{3} = -9x$$
$$\frac{12}{3} = -5x$$

$$x = -2$$

10) Solve for x:

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

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Unit 18 Review of Linear Equations – Form A

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$\begin{aligned} 7 + 5y &= 2 \\ -7 & \quad -7 \\ \hline 5y &= -5 \\ \hline y &= -1 \end{aligned}$$

2) Solve for x:

$$\begin{aligned} \frac{x}{-5} + 8 &= -2 \quad -5 \\ -5 \cdot \frac{x}{-5} &= -10 \quad -5 \\ x &= 50 \end{aligned}$$

3) Solve for x:

$$4x + 8x = 9$$

$$\frac{12x}{12} = \frac{9}{12}$$

$$x = 0.75$$

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$\begin{array}{r} 3y + (-8) = 5 + 4y \\ -4y \quad -4y \\ \hline -1y + (-8) = 5 \\ -(-8) \quad -8 \\ \hline -1y = 13 \\ \frac{-1y}{-1} = \frac{13}{-1} \\ y = -13 \end{array}$	<p>First I combined like terms. Then I subtracted -8 from both sides. Then I divided by -1y to get the answer -13.</p>

5) Solve for y:

$$\begin{aligned}
 6 + (-7y) &= -1 + 2y \\
 6 + (-9y) &= -1 \\
 -9y &= -7 \\
 \frac{-9y}{-9} &= \frac{-7}{-9} \\
 y &= 0.777
 \end{aligned}$$

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why
$ \begin{aligned} -3.2x + 4.1 &= 12.8 + 6.4x \\ +3.2x &+3.2x \\ 4.1 &= 12.8 + 9.6x \\ -12.8 &-12.8 \\ -8.7 &= 9.6x \\ \frac{-8.7}{9.6} &= \frac{9.6x}{9.6} \\ -0.90625 &= x \end{aligned} $	<p>First I combined like terms. Then I added subtracted 12.8 from both sides. Then I divided by 9.6 on both sides to get my answer.</p>

7) Solve for x:

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

$$\begin{array}{r} -2.8 = 6.7x + (-3.4) \\ -3.4 \quad -3.4 \end{array}$$

$$\begin{array}{r} 0.6 = 6.7x \\ 6.7 \quad 6.7 \end{array}$$

$$0.0895 = x$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 12.3 = -4.1y + (-9.2) \\ -y \quad -y \\ 12.3 = -5.1y + (-9.2) \\ -12.3 \quad -12.3 \\ 21.5 = -5.1y \\ 21.5 \quad 5.1 \\ 4.2156 = y \end{array}$	

9) Solve for x :

$$\frac{4x+12}{3} = -9x$$

10) Solve for x :

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

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Unit 18 Review of Linear Equations – Form A

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$7 + 5y = 2$$

$$\begin{array}{r} -7 \\ 5 \end{array}$$

I subtracted 7
I Divided 5
 $y = -1$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$

$$\begin{array}{r} x \cdot 5 \\ -10 \\ \hline x = 50 \end{array}$$

3) Solve for x:

$$4x + 8x = 9$$

$$\frac{12x = 9}{12 \quad 12}$$

$$x = .75$$

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

$$+ 3y + 4y \text{ to get } 7y$$

Show your work here	For each step, explain why
$\begin{array}{r} 7y + -8 = 5 \\ +8 \quad +8 \\ \hline 7y = 13 \\ \hline 7 \quad 7 \\ \hline y = 1.857 \end{array}$	$\begin{array}{l} +8 \text{ to get } 7y \\ 5 + 8 = 13 \\ \text{Divide By } 7 \\ \frac{13}{7} = 1.857 \end{array}$

5) Solve for y:

$$6 + (-7y) = -1 + 2y$$

$$\begin{array}{r} 6 + -5y = -1 \\ -6 \quad -6 \\ \hline -5y = -7 \\ -5 \quad -5 \\ \hline y = 1.4 \end{array}$$

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

$$-3.2x + 6.4x = 3.2x$$

Show your work here	For each step, explain why
$\begin{array}{r} 3.2x + 4.1 = 12.8 \\ -4.1 \quad -4.1 \\ \hline 3.2x = 8.7 \\ \underline{3.2} \quad \underline{3.2} \\ x = 2.71875 \end{array}$	$\begin{array}{r} 12.8 - 4.1 = \\ \underline{8.7} \\ 3.2 \end{array}$

7) Solve for x:

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

$$\begin{array}{r}
 11.8X \\
 + 5.1X \\
 \hline
 16.9X \\
 -2.8 + 16.9X = -3.4 \\
 + 2.8 \quad \quad \quad + 2.8 \\
 \hline
 16.9X = -0.6 \\
 \hline
 16.9 \quad \quad \quad 16.9
 \end{array}$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

$$X = -0.0355$$

Show your work here	For each step, explain why
$ \begin{array}{r} 12.3 \\ -4.1y \\ \hline y = -3 \end{array} $	

9) Solve for x:

$$\frac{4x+12}{3} = -9x$$

$$X = 7.69$$

10) Solve for x:

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

$$X = 21.72$$

CWCTC Conko – Period 3 Pre-Test

Unit 18 Review of Linear Equations – Form A

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$7 + 5y = 2$$

$$\begin{array}{r} 7 + 5y = 2 \\ -7 \quad -7 \end{array}$$

$$\begin{array}{r} 5y = -5 \\ 5 \quad 5 \end{array}$$

$$\boxed{-1 = y}$$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$

$$\begin{array}{r} \frac{x}{-5} + 8 = -2 \\ -8 \quad -8 \end{array}$$

$$\begin{array}{r} \frac{x}{-5} = -10 \\ (-5) \cdot \frac{x}{-5} = -10 \end{array}$$

$$\boxed{x = 50}$$

3) Solve for x:

$$4x + 8x = 9$$

$$\frac{11x}{11} = \frac{9}{11}$$

$$x = \frac{9}{11}$$

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$ \begin{array}{r} 3y + (-8) = 5 + 4y \\ +8 \quad +8 \\ \hline 13 + 7y \\ \hline 7 \quad 7 \end{array} $ $1.857142 = y$	<p>I took the like terms and added them then I took minus 8 and got +3 and divided by 7 and got my answer of 1.857142.</p>

5) Solve for y:

$$\begin{array}{rcl} 6 + (-7y) & = & -1 + 2y \\ -6 & & -6 \end{array}$$

$$\frac{-5y}{-5} = \frac{-7}{-5}$$

$$\boxed{y = 1.4}$$

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why
$\begin{array}{rcl} -3.2x + 4.1 & = & 12.8 + 6.4x \\ -4.1 & -4.1 & \\ \hline -3.2x & = & 8.7 \\ \frac{-3.2x}{-3.2} & = & \frac{8.7}{-3.2} \\ \hline \boxed{x = -2.71875} \end{array}$	<p>I added like terms and got $3.2x$ then I add subtracted 4.1 from 12.8 and got 8.7 then I divided by 3.2 and got my answer of 2.71875.</p>

7) Solve for x:

$$\begin{array}{r} -2.8 + 5.1x = 11.8x + (-3.4) \\ +2.8 \qquad \qquad +2.8 \end{array}$$

$$\begin{array}{r} -0.6 = 16.9x \\ 16.9 \quad 16.9 \end{array}$$

$$\boxed{-0.03550959 = x}$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 12.3 = -4.1y + -9.2 \\ -12.3 \qquad \qquad -12.3 \\ \hline -3.1y = -21.5 \\ -3.1 \quad -3.1 \\ \hline \end{array}$ $\boxed{y = 6.935483871}$	<p>I added like terms and got $-3.1y$ then subtracted -12.3 and got -21.5 then divided by -3.1 and got my answer of 6.935483871.</p>

9) Solve for x:

$$\frac{4x+12}{3} = -9x$$

$$4x + 12 = -27x$$

$$\frac{-21x}{-21} = \frac{36}{-21}$$

$$x = -1.714285714$$

10) Solve for x:

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

$$\frac{12.1x}{12.1} = \frac{-6.3}{12.1}$$

$$x = -0.520661157$$

CWCTC Conko – Period 3 Pre-Test

Unit 18 Review of Linear Equations – Form A

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$7 + 5y = 2$$

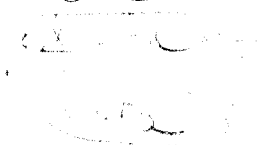


Handwritten solution for problem 1:

$$\begin{array}{rcl} 7 + 5y & = & 2 \\ -7 & -7 & \\ \hline 5y & = & -5 \\ \div 5 & \div 5 & \\ y & = & -1 \end{array}$$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$



Handwritten solution for problem 2:

$$\begin{array}{rcl} \frac{x}{-5} + 8 & = & -2 \\ -8 & -8 & \\ \hline \frac{x}{-5} & = & -10 \\ \times -5 & \times -5 & \\ x & = & 50 \end{array}$$

3) Solve for x:

$$4x + 8x = 9$$

$$\begin{aligned} 12x &= 9 \\ x &= \frac{9}{12} \\ x &= \frac{3}{4} \end{aligned}$$

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$\begin{aligned} 3y + (-8) &= 5 + 4y \\ 3y - 8 &= 5 + 4y \\ 3y - 8 - 4y &= 5 + 4y - 4y \\ -y - 8 &= 5 \\ -y - 8 + 8 &= 5 + 8 \\ -y &= 13 \\ y &= -13 \end{aligned}$	<p>Subtract 4y from both sides to get all y terms on one side.</p> <p>Subtract 8 from both sides to isolate the y term.</p> <p>Multiply both sides by -1 to solve for y.</p>

5) Solve for y:

$$6 + (-7y) = -1 + 2y$$

$$\begin{aligned} 6 - 7y &= -1 + 2y \\ -7y - 2y &= -1 - 6 \\ -9y &= -7 \\ y &= \frac{7}{9} \end{aligned}$$

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why
$\begin{aligned} -3.2x + 4.1 &= 12.8 + 6.4x \\ -3.2x - 6.4x &= 12.8 - 4.1 \\ -9.6x &= 8.7 \\ x &= \frac{8.7}{-9.6} \\ x &= -0.90625 \end{aligned}$	<p>1. Subtract $6.4x$ from both sides to get all x terms on one side.</p> <p>2. Subtract 4.1 from both sides to isolate the x term.</p> <p>3. Divide both sides by -9.6 to solve for x.</p>

7) Solve for x:

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

~~11.8x~~

$$\begin{array}{r} 5.1x - 11.8x \\ \hline -6.7x \end{array}$$

$$x = -0.31237$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 12.3 = -4.1y + (-9.2) \\ -12.3 \quad -9.2 \\ \hline y = -4.1y \\ \hline 5.1y \\ \hline y = -1 \end{array}$	<p>Subtract 12.3 from both sides Add 4.1y to both sides Combine like terms Divide both sides by 5.1</p>

9) Solve for x:

$$\frac{4x+12}{3} = -9x$$

$$4x + 12 = -27x$$

$$4x = -27x - 12$$

$$\frac{4x}{12} = \frac{-27x - 12}{12}$$

$$x = -0.75$$

10) Solve for x:

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

$$14.1x + 19.1 - 8.2x = -6.2x + 12.8$$

$$5.9x + 19.1 = -6.2x + 12.8$$

$$11.1x = -6.3$$

CWCTC Conko – Period 3 Pre-Test

Unit 18 Review of Linear Equations – Form A

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$7 + 5y = 2$$

Handwritten work:
 $7 + 5y = 2$
 $5y = 2 - 7$
 $5y = -5$
 $y = -1$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$

Handwritten work:
 $\frac{x}{-5} + 8 = -2$
 $\frac{x}{-5} = -2 - 8$
 $\frac{x}{-5} = -10$
 $x = 50$

3) Solve for x :

$$4x + 8x = 9$$

$\delta x = 9$
 $8 - 4$
 3
 2.00
 8

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$3x + (-8) - 8 = 3x + 14$ $3x + 3 \quad 8 + 14 = 22$ $3x + 3 = -1$	<p>7. $3x + (-8) - 8 = 3x + 14$ made the 8 positive</p> <p>8. $3x + 3 \quad 8 + 14 = 22$ added the 8 to the 14</p> <p>9. $3x + 3 = -1$ subtracted 3 from both sides</p>

5) Solve for y:

$$6 + (-7y) = -1 + 2y$$

(

59 _____ 4.3

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why
-3 $12.8 + 6.4x$ $-3.2x + 4.1 = 12.8 + 6.4x$ $-3.2x + 4.1 - 6.4x = 12.8 + 6.4x - 6.4x$ $-9.6x + 4.1 = 12.8$ $-9.6x + 4.1 - 4.1 = 12.8 - 4.1$ $-9.6x = 8.7$ $-9.6x \div -9.6 = 8.7 \div -9.6$ $x = -0.90625$	<p>Subtract 6.4x from both sides to isolate the variable term.</p> <p>Subtract 4.1 from both sides to isolate the variable term.</p> <p>Divide both sides by -9.6 to solve for x.</p>

7) Solve for x:

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

$$\begin{array}{r} -2.8 + 5.1x = 11.8x + (-3.4) \\ -2.8 - 11.8x + 5.1x = -3.4 + 11.8x - 11.8x \\ -2.8 - 6.7x = -3.4 \\ -6.7x = -3.4 + 2.8 \\ -6.7x = -0.6 \\ x = \frac{-0.6}{-6.7} \\ x = 0.09 \end{array}$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 12.3 = -4.1y + (-9.2) \\ y + 12.3 + 4.1y = -4.1y + (-9.2) + 4.1y \\ 5.1y + 12.3 = -9.2 \\ 5.1y + 12.3 - 12.3 = -9.2 - 12.3 \\ 5.1y = -21.5 \\ y = \frac{-21.5}{5.1} \\ y = -4.21 \end{array}$	<p>add 4.1y to both sides to get y terms on one side</p> <p>add 12.3 to both sides to get y terms on one side</p> <p>subtract 12.3 from both sides to get y terms on one side</p> <p>divide both sides by 5.1 to get y</p>

9) Solve for x:

$$\frac{4x+12}{3} = -9x$$

$$\frac{4x+12}{3} = -9x$$

10) Solve for x:

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

$$14.1x + 19.1 - 8.2x = -6.2x + 12.8$$

$$12.4x + 5.3 = -6.2x + 12.8$$

CWCTC Conko – Period 3 Pre-Test

Unit 18 Review of Linear Equations – Form A

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$7 + 5y = 2$$

$$7 - 7 = 2 - 7$$

$$5y = -5$$

$$\frac{5y}{5} = \frac{-5}{5}$$

$$y = -1$$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$

$$\frac{x}{-5} + 8 - 8 = -2 - 8$$

$$\frac{x}{-5} = -10$$

$$x = 50$$

3) Solve for x:

$$4x + 8x = 9$$

$$\frac{12x}{12} = \frac{9}{12}$$

.75x

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$3y + (-8) = 5 + 4y$ $7y + (-8) = 5$ $+8 \quad 12$ $y = 12$ $y = 1.25742857$	<p>1. rewrite answer so its easier to do</p> <p>2. subtract 4y from both sides to make it easier</p> <p>3. add 8 to both sides to get rid of it</p> <p>4. divide 7 by 7 + 12 to get</p> $y = 1.25742857$

5) Solve for y:

$$6 + (-7y) = -1 + 2y$$

$$6 - 7y = -1$$

$$\frac{-7y}{-7} = \frac{-17}{-7}$$

$$y = 1.4$$

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why
$-3.2x + 4.1 = 12.8 + 6.4x$ $-3.2x + 4.1 - 4.1 = 12.8 + 6.4x - 4.1$ $-3.2x = 8.7$ $\frac{-3.2x}{-3.2} = \frac{8.7}{-3.2}$ $x = -2.71875$	<p>1. Write the problem as an equation.</p> <p>2. Subtract 4.1 from both sides to make the variable terms only on one side.</p> <p>3. Simplify: $-3.2x + 4.1 - 4.1 = 12.8 + 6.4x - 4.1$</p> <p>4. Simplify: $-3.2x = 8.7$</p> <p>5. Divide both sides by -3.2 to solve for x.</p> <p>6. Simplify: $x = -2.71875$</p>

7) Solve for x:

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

$$-2.8 + 16.9x = -3.4$$

$$\frac{16.9x}{16.9} = \frac{-0.6}{16.9}$$

$$x = 0.035502957$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why
$y + 12.3 = -4.1y + (-9.2)$ $5.1y + 12.3 = -9.2$ $-12.3 - 12.3$ $5.1y = -21.5$ $\frac{5.1y}{5.1} = \frac{-21.5}{5.1}$ $y = -4.21568627451$	<p>1. Rewrite the equation to have all terms on one side.</p> <p>2. Combine like terms.</p> <p>3. Subtract 12.3 from both sides to get rid of the constant.</p> <p>4. Divide 5.1 from both sides to get y alone.</p> <p>5. Get the answer.</p>

9) Solve for x: ?

$$\frac{4x+12}{3} = -9x$$

$$-\frac{12}{3} = -5$$

—

10) Solve for x:

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

$$-0.3x + 19.1 = 12.8$$

$$-0.3x = -6.3$$

$$\frac{-0.3x}{-0.3} = \frac{-6.3}{-0.3}$$

$$x = 21$$

CWCTC Conko – Period 3 Pre-Test

Unit 18 Review of Linear Equations – Form A

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$\begin{array}{r} 7 + 5y = 2 \\ -7 \\ \hline 5 + 5y = -5 \\ 10y = -10 \end{array}$$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$

3) Solve for x:

$$4x + 8x = 9$$

$$\frac{12x}{3} = \frac{9}{3}$$

$$4 = 3$$

$$(4x)$$

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$3y + (-8) = 5 + 4y$ $7y + -8 = 5$ $7y - 13$ $(y = 7)$	I combined the like terms $3y$ and $4y$ and got $7y$ and then did the parentheses and then added 8 and divided.

5) Solve for y:

$$6 + (-7y) = -1 + 2y$$

$$6 + 9y = -1$$

$$9y = -7$$

$$15y (y = 15)$$

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why
$-3.2x + 4.1 = 12.8 + 6.4x$ $-9.6x + 4.1 = 12.8$ $9.6 + 4.1 = 13.7$ $13.7 + 12.8$ $x = 24.9$	1 Combined like terms $-3.2x$ and $6.4x$ and then added in 4.1 and 12.8 and then divided

7) Solve for x:

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

$$5.1x - 11.8x$$

$$16.9x + 3.4$$

$$x = 14.11$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why
$y + 12.3 = -4.1y + (-9.2)$ $\frac{5.1y}{2} = \frac{12.3}{2}$ $y = 7$	I combined like terms then took the added them and divided by 2

9) Solve for x:

$$\frac{4x+12}{3} = -9x$$

$$4/3 = 1 \quad 12/3 = 4 \quad -9x \\ -3x$$

$$x = -3$$

10) Solve for x:

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

$$14.1x - 8.2x = -6.2x \\ 28x = 14.1$$

$$x = 28$$

Hi

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Conko – Period 3

Pre-Test

Unit 18 Review of Linear Equations – Form A

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$7 + 5y = 2$$

$$7 - 7 + 5y = 2 - 7$$

$$5y = -5$$

$$y = (-1)$$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$

$$\frac{x}{-5} + 8 - 8 = -2 - 8$$

$$\frac{x}{-5} = -10$$

$$\frac{x}{-5} \cdot (-5) = -10 \cdot (-5)$$

$$x = 50$$

3) Solve for x:

$$4x + 8x = 9$$

$$12x = 9$$

$$x = \frac{9}{12}$$

$$x = .75$$

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$+3y - 8 = 5 + 4y - 5$ $-5y = -1y$ $y = 5$	$\text{cancelled out the 8's to get}$ $y = 5$ $\div y$

5) Solve for y:

$$6 + (-7y) = -1 + 2y$$

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why

7) Solve for x :

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

8) Solve for y :

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why

9) Solve for x :

$$\frac{4x+12}{3} = -9x$$

10) Solve for x :

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

CWCTC Conko – Period 3 Pre-Test

Unit 18 Review of Linear Equations – Form A

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$7 + 5y = 2$$

$$7 + 5y = 2$$

$$\frac{5y}{5} = \frac{-5}{5}$$

$$y = -1$$

2) Solve for x:

$$\frac{x}{-5} + 8 = -2$$

$$\frac{x}{-5} + 8 = -2$$

$$16$$

$$y = 16$$

3) Solve for x:

$$4x + 8x = 9$$

$$12x = 9$$

$$12x = 9$$

$$x = 0.75$$

4) Solve for y:

$$3y + (-8) = 5 + 4y$$

Show your work here	For each step, explain why
$3y + (-8) = 5$ $3y + -8 - 5 = -8 - 5$ $\frac{3y}{3} = \frac{-13}{3}$ $y = -4.33$	

5) Solve for y:

$$6 + (-7y) = -1 + 2y$$

$$-6 + (-7y) = -1 - 6$$

$$\frac{-7y}{-7} = \frac{-7}{-7}$$

$$y = -1.4$$

6) Solve for x:

$$-3.2x + 4.1 = 12.8 + 6.4x$$

Show your work here	For each step, explain why
$-3.2x + 4.1 = 12.8 + 6.4x$ $\frac{-3.2x}{-3.2} = \frac{2.9}{-3.2}$ $x = -3.4$	

7) Solve for x:

$$-2.8 + 5.1x = 11.8x + (-3.4)$$

$$-0.6 + 16.9$$

$$x = .6$$

8) Solve for y:

$$y + 12.3 = -4.1y + (-9.2)$$

Show your work here	For each step, explain why
$y = -5.8$	

9) Solve for x:

$$\frac{4x+12}{3} = -9x$$

$$\frac{4x+12}{3} = -9x$$

$$\frac{4x+12}{3} = -9x$$

$$x = -1$$

10) Solve for x:

$$14.1x + 19.1 + (-8.2x) = -6.2x + 12.8$$

$$14.1x + 19.1 - 8.2x = -6.2x + 12.8$$

$$x = 49$$