

CWCTC CONKO – PERIOD 8 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

$$7 + 5y = 2$$

$$y = -1$$

2) Solve for x:

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

$$x = -50$$

3) Solve for x:

$$4x + 8x = 9$$

$$x = 1.5$$

4) Solve for y:

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

Show your work here	For each step, explain why
$3 \times 8 = 24$ $= 3$	because it ...

5) Solve for y:

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

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

$$-9y = -7$$

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

6) Solve for x:

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

Show your work here	For each step, explain why
$\begin{aligned} -3.2x + 4.1 &= 12.8 + 6.4x \\ -3.2x + 4.1 - 4.1 &= 12.8 + 6.4x - 4.1 \\ -3.2x &= 8.7 + 6.4x \\ -3.2x - 6.4x &= 8.7 + 6.4x - 6.4x \\ -9.6x &= 8.7 \\ x &= -0.90625 \end{aligned}$	<p>it equals</p>

7) Solve for x:

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

$$\begin{aligned} -2.8 + 5.8 \\ = 3 \end{aligned}$$

8) Solve for y:

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

Show your work here	For each step, explain why
$\begin{aligned} y + 12.3 - 9.3 \\ = 3 \end{aligned}$	$\begin{aligned} \text{less it is } 15 \\ 3 \end{aligned}$

9) Solve for x :

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

$$41 - 1$$

$$= 3$$

10) Solve for x :

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

$$14.1 - 11.1$$

$$= 3$$

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1) Solve for y

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

2) Solve for x:

$$\begin{array}{r} \frac{x}{-5} + 8 = -2 \\ -8 \quad -8 \\ \hline \frac{x}{-5} = -10 \\ x = -50 \end{array}$$

3) Solve for x:

$$4x + 8x = 9$$

$$12x = 9$$

4) Solve for y:

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

Show your work here	For each step, explain why
7y + 8 = 5 $\begin{array}{r} 7y + 8 = 5 \\ -8 \quad -8 \\ \hline -3 \end{array}$ $7y - 3 = 2.3\bar{3} \quad y = 2.3\bar{3}$	add both ys then Just go $7y + (-8) = 5$ then subtract -8 by both sides and get -3 then divide -3 into 7 and get $2.3\bar{3}$ so you get $y = 2.3\bar{3}$

5) Solve for y:

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

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

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

$$y = \underline{0.714285714}$$

6) Solve for x:

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

Show your work here	For each step, explain why
$\begin{array}{r} -3.2x + 4.1 = 12.8 \\ -4.1 \quad -4.1 \\ \hline -3.2x = 8.7 \\ \hline x = -2.71875 \end{array}$	<p>add both x's then you subtract 4.1 from both sides and get 8.7. Divide both sides by 3.2 and get -2.71875 so $x = -2.71875$</p>

7) Solve for x:

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

$$\begin{array}{r} -2.8 + 16.9x = -3.4 \\ -2.8 - 16.9x \quad -2.8 \\ \hline 14.1x = -6.2 \\ \hline x = -0.43971631915 \end{array}$$

$$x = -0.36688905$$

8) Solve for y:

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

Show your work here	For each step, explain why
$\begin{array}{r} 3.1 + (-9.2) = 12.3 \\ 3.1 - 9.2 \quad -9.2 \\ \hline 3.1 \\ \hline y = 1 \end{array}$	<p>add both y's and get 3.1 then subtract by -9.2 and get 3.1 then divide both sides by 3.1 and y =</p>

9) Solve for x:

$$\frac{4x+12}{3} = -9x \quad x = 5.1$$

10) Solve for x:

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

$$\begin{array}{r} -0.3 \cancel{19.1} = 12.8 \\ -0.3 \quad -19.1 \quad -19.1 \\ \hline -6.3 \\ \hline 0.3 \end{array} \quad x = 21.$$

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1) Solve for y

$$7 + 5y = 2$$

$$5y = -5$$

2) Solve for x:

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

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

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

$$x = 2$$

3) Solve for x:

$$4x + 8x = 9$$

$$\cancel{4x} + \cancel{8x} = 9$$
$$x = 42$$

4) Solve for y:

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

Show your work here	For each step, explain why
$3y + (-8) = 5 + 4y$ $-4y = 5$ $-4y = 5$	Because the y terms are on both sides.

5) Solve for y:

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

$$-14y = -7$$

$$y = \frac{1}{2}$$

6) Solve for x:

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

Show your work here	For each step, explain why
$-3.2x + 4.1 = 12.8 + 6.4x$	<p>3 ac answer is 3</p>

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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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

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

~~2 + 5y = 5~~ $\Rightarrow 5y = 5$

$y = 1$

2) Solve for x:

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

$$\begin{array}{r} -5 \quad -5 \\ \hline 0 \quad -2 \end{array}$$

$x = -10$

3) Solve for x:

$$4x + 8x = 9$$

$$\begin{array}{r} -4 \quad -4 \\ \hline 0 \quad 5 \end{array}$$

$$x = 3$$

4) Solve for y:

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

Show your work here	For each step, explain why
$3y + (-8) = 5 + 4y$ $5 + 9$ 14 $y = 14$	<p>I add $3 + -8$ then $5 + 4$ then add $5 + 9$</p>

5) Solve for y:

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

$$-1 \neq 1$$

⊗

$$y = 0$$

6) Solve for x:

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

Show your work here	For each step, explain why
$-3.2x + 4.1 = 12.8 + 6.4x$ $2.3 \overset{19}{+} 12.2$ $x = 21.5$	I added

7) Solve for x:

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

$$2.3 + 11.2$$

$$x = 17.5$$

8) Solve for y:

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

Show your work here	For each step, explain why
$-4.1 + -1.2$ $-12.3 + 12.3$ -1 $y = -1$	I add

9) Solve for x:

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

$$\frac{16}{3} = 5.3 - 9$$

$$x = -3.7$$

10) Solve for x:

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

$$25 + 6.6$$

$$x = 31.6$$

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1) Solve for y

$$7 + 5y = 2$$

$$-7 \quad -7$$

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

$$y = -1$$

2) Solve for x:

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

$$-5 \quad -8$$

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

$$x = -50$$

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 \\ -3y \qquad \qquad -3y \\ \hline -8 = 5 + 1y \\ -5 \qquad \qquad -5 \\ \hline -13 = 1y \\ \hline \underline{1} \qquad \underline{1} \\ y = -13 \end{array} $	<ol style="list-style-type: none"> ① Subtract $3y$ from both sides ② Subtract 5 from both sides ③ Divide both sides by one

5) Solve for y:

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

$$6 = -1 + 9y$$

$$7 = 9y$$

$$y = 0.7777$$

6) Solve for x:

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

Show your work here	For each step, explain why
$ \begin{array}{r} -3.2x + 4.1 = 12.8 + 6.4x \\ + 3.2x \quad + 3.2x \\ \hline 4.1 = 12.8 + 9.6x \\ -12.8 \quad -12.8 \\ \hline -8.7 = 9.6x \\ \hline \frac{-8.7}{9.6} = \frac{9.6x}{9.6} \\ x = -0.90625 \end{array} $	<p>step</p> <p>① Add 3.2x to both sides</p> <p>② Subtract 12.8 from both sides</p> <p>③ Divide both sides by 9.6</p>

7) Solve for x:

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

$$-5.1x \quad -5.1x$$

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

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

$$x = 0.0895$$

8) Solve for y:

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

Show your work here	For each step, explain why
$\begin{array}{r} y + 12.3 = -4.1y + (-9.2) \\ +4.1y \quad +4.1y \\ \hline 5.1y + 12.3 = (-9.2) \\ -12.3 \quad -12.3 \\ \hline 5.1y = -21.5 \\ \hline 5.1 \quad 5.1 \\ \hline y = 4.2156 \end{array}$	<p>① Add $4.1y$ to both sides</p> <p>② Subtract 12.3 from both sides</p> <p>③ Divide both sides by 5.1</p>

9) Solve for x:

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

$$\frac{13x+12}{3}$$

$$\frac{13x}{13} + \frac{36}{13}$$

$$x = 2.76923$$

10) Solve for x:

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

$$14.1x + 19.1 = 19.4x + 12.8$$

$$19.1 = 8.5x + 12.8$$

$$6.3 = 8.5x$$

$$2.85$$

$$x = 2.21059$$

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1) Solve for y

$$7 + 5y = 2$$

$$2 - 7 = -5$$

$$5y - 5 = -1$$

$$y = -1$$

2) Solve for x:

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

$$-2 - 8 = -10$$

$$-10 \div 5 = -2$$

3) Solve for x:

$$4x + 8x = 9$$

$$\begin{array}{r} -4x \\ -4x \\ \hline 0 \end{array}$$

$$4x + 8x = 9$$

$$\begin{array}{r} -4x \\ -4x \\ \hline 0 \end{array}$$

$$12x = 9$$

$$12x = 9$$

$$12x = 9$$

$$12x = 9$$

$$12x = 9$$

$$x = 1.6$$

$$12x = 9$$

$$12x = 9$$

$$12x = 9$$

$$12x = 9$$

$$12x = 9$$

$$12x = 9$$

$$12x = 9$$

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$$12x = 9$$

$$12x = 9$$

$$12x = 9$$

$$12x = 9$$

$$12x = 9$$

4) Solve for y:

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

$$\begin{array}{r} -3y \\ -3y \\ \hline 0 \end{array}$$

$$-5 + 1 = -8 \quad y = 13$$

Show your work here

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

$$\begin{array}{r} -4y \\ -4y \\ \hline 0 \end{array}$$

$$\begin{array}{r} -1 \\ -1 \\ \hline 0 \end{array}$$

$$-1y - 8 = 5$$

$$\begin{array}{r} -8 \\ -8 \\ \hline 0 \end{array}$$

$$-1y = +3$$

$$-1 \div 13 = -13$$

$$y = -13$$

$$y = -13$$

$$y = -13$$

$$y = -13$$

$$y = -13$$

$$y = -13$$

For each step, explain why

1. I took 4 subtracted it from three then subtracted 8 then divide by one and got -13

5) Solve for y:

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

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

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

$$y = 3.2$$

6) Solve for x:

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

Show your work here	For each step, explain why
$\begin{array}{r} -3.2x + 4.1 = 12.8 + 6.4x \\ +3.2 \quad +3.2 \\ \hline 0 + 4.1 = 12.8 + 6.4x \\ -12.8 \quad -12.8 \\ \hline 6.4x = -8.7 \end{array}$ $x = 1.35$ $x = 1.10$	<p>I add 3.2 then subtract 12.8 then divide by 9.6 and got 1.10</p>

7) Solve for x:

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

$$\underline{-5.1x \quad -5.1}$$

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

$$0.6 = 6.7x \quad \begin{array}{r} +3.4 \\ \hline 0 \end{array}$$

$$x = 0.89$$

8) Solve for y:

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

Show your work here	For each step, explain why
$\begin{array}{r} -9.2 + 4.1y = 12.3 \\ +9.2 \quad \quad +9.2 \\ \hline 0 + 4.1y = 11.5 \end{array}$ $y = 2.8$	<p>guess</p> <p>took off the x added 9.2 then divide by 4.1</p>

9) Solve for x :

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

$$x = -24$$

10) Solve for x :

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

$$x = 4.3$$

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1) Solve for y

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

A guess pretty much was right. I
think it for sure is right.

2) Solve for x:

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

$x = -2$... I think. I don't really remember
either of these.

3) Solve for x:

$$4x + 8x = 9$$

?

once again, let's solve this problem.

4) Solve for y:

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

Show your work here	For each step, explain why
$-8 + 3 = -5 + 10 = 5 + 4 = 9$ 90	Multiply -4 on down.

5) Solve for y:

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

$$6 + -7 = -1 \times 1 = -1 - 2 = -3 \quad 1 = 5$$

No solution

6) Solve for x:

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

Show your work here	For each step, explain why
$x = 5.5$	Check. Show. Don't really know. But it's a good guess.

7) Solve for x:

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

$$x = 9.5 \quad \text{Don't forget... mind... mental work}$$

8) Solve for y:

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

Show your work here	For each step, explain why
-8.2	Mental work again

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

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

2) Solve for x:

$$\begin{array}{r} 5 \cdot \frac{x}{-5} + 8 = -2 \\ \quad \quad -4 \quad -4 \\ \hline -10 + 8 = -2 \\ \hline -2 = -2 \end{array}$$

$x = 50$

3) Solve for x:

$$4x + 8x = 9$$

$$-8 \quad -8$$

$$4x \quad 1$$

$$\frac{4}{4} \quad \frac{1}{4}$$

$$x = 0.25$$

4) Solve for y:

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

Show your work here	For each step, explain why
$3y + (-8) = 5 + 4y$ $3y + \frac{-8}{1} = \frac{5}{1} + \frac{4y}{1}$ $\frac{3y}{3} + \frac{-0.8}{3}$ $y = -0.246$	<p>Added $5 + 4 = 9$</p> <p>divided $\frac{9y}{9} + \frac{-8}{9}$</p> <p>divided $-0.8 = 3$</p> <p>Got answer 0.246</p>

5) Solve for y:

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

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

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

$$y = -1$$

6) Solve for x:

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

Show your work here	For each step, explain why
$\begin{array}{l} -3.2x + 4.1 = 12.8 + 6.4x \\ 0.9x = 19.2x \\ \hline 0.9 \quad 0.9 \\ x = 21.3 \end{array}$	<p>Add numbers together</p> <p>divide 0.9x to both sides</p>

7) Solve for x:

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

$$\frac{2.3x}{2.3} = \frac{8.4x}{2.3}$$

$$x = 3.652173913$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 12.3 = -4.1y + (-9.2)$ $\frac{12.3}{-5.1} = \frac{-5.1y}{-5.1}$ $y = -2.411764706$	Add problem divide both sides by -5.1

9) Solve for x:

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

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

$$x = -0.4$$

10) Solve for x:

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

~~10x~~

$$\frac{25x}{25} = \frac{66}{25}$$

$$x = 0.264$$

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1) Solve for y

$$7 + 5y = 2$$

$$\begin{array}{r} 5y = -5 \\ \underline{12} \quad \underline{12} \\ 12y = -10 \\ \underline{12} \quad \underline{12} \\ 12y = -10 \end{array}$$

$$y = -\frac{5}{6}$$

2) Solve for x:

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

$$\frac{x}{5} - 8 = -10$$

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

$$x = -10$$

3) Solve for x:

$$\begin{array}{l} 4x + 8x = 9 \\ 12x = 9 \\ \hline 12 \quad 12 \\ x = 6 \end{array}$$

4) Solve for y:

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

Show your work here	For each step, explain why
$\begin{array}{l} 3y + (-8) = 5 + 4y \\ 3y + 4y = 7y \\ 7y + (-8) = 5 + \\ \hline 7y = -3 \\ \frac{7y}{7} = \frac{-3}{7} \\ y = -2.3 \end{array}$	<p>added the y's and got 7 added -8 + 5 to get -3. divided 7y and -3 to get y = -2.3</p>

5) Solve for y:

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

$$\begin{aligned} & \underbrace{6 + (-7y)}_{-5} = \underbrace{-1 + 2y}_{-5} \\ & -5y = 5 \\ & \frac{-5y}{-5} = \frac{5}{-5} \\ & y = -1 \end{aligned}$$

6) Solve for x:

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

Show your work here	For each step, explain why
$\begin{aligned} & -3.2x + 4.1 = 12.8 + 6.4x \\ & -3.2x + 6.4x = 3.2x^2 \\ & 3.2x^2 + 4.1 = 12.8 \\ & \underbrace{3.2x^2 + 4.1}_{16.9} = 12.8 \\ & 3.2x^2 + 16.9 = y \\ & x = 20.1 \end{aligned}$	

7) Solve for x:

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

$$\begin{aligned} & \text{---} -2.8 + (-3.4) \\ 5.1x &= 11.8x - 6.2 \\ & \text{---} \\ 16.9 &= x^2 \end{aligned}$$

8) Solve for y:

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

Show your work here	For each step, explain why
$\begin{aligned} y + 12.3 &= -4.1y + (-9.2) \\ 12.3 + -9.2 & \\ 3.1 + 4.1y & \\ 7.2 + 12.3 &= \\ y &= 19.5 \end{aligned}$	$\begin{aligned} &\text{add } 4.1y \text{ to} \\ &-9.2 \text{ to get} \\ &3.1 + 4.1y \\ &\text{to get } 7.2 \\ &+ 12.3 = 19.5 \\ &= y \end{aligned}$

9) Solve for x:

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

$$12+4 = \frac{16x}{3} = -9x$$

$$5x = -9x$$

$$5+9 = -4x$$

10) Solve for x:

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