

Unit 18 Review of Linear Equations – Form B

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.

PRE

Billings
Prod. 2

1) Solve for y

$$-9 + 2y = 4 - 4$$

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

$$y = 2.5$$

Ligo Anthony

Wilkinsburg

Billings - Prod. 2

Pre-Tests (7)

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

3) Solve for x :
 $2x + 5x = 6$

4) Solve for y :
 $4y + (-7) = 5 + 6y$

Show your work here	For each step, explain why

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why

7) Solve for x :

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

8) Solve for y :

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why

9) Solve for x :

$$\frac{3x+8}{7} = -12x$$

10) Solve for x :

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

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S/G

PRE

Bilka
md.2

1) Solve for y

$$9 + 2y = 4$$

$$\begin{aligned} 9 + 2y &= 4 \\ -9 & \quad -9 \\ 2y &= -5 \\ y &= -2.5 \end{aligned}$$

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

$$\begin{aligned} \frac{x}{-4} + 6 &= -3 \\ \frac{x}{-4} &= -9 \\ x &= 36 \end{aligned}$$

3) Solve for x:

$$2x + 5x = 6$$

$$7x = 6$$

$$x = \frac{6}{7}$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$4y + (-7) - 5 + 6x$ $-4y \quad -4y$ <hr/> $-7 = 5 + 2y$ $-12 = 2y$ $-6 = y$	<p>Subtract 5 from both sides</p> <p>Subtract 4y from both sides</p> <hr/> <p>Divide both sides by 2</p> <p>Isolate to solve for y</p>

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$$7 - 8y = -3 + 2y$$

$$-10y = -10$$

$$y = 1$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$ $+1.8x$ $6.3 = 9.7 + 6.9x$ -9.7 $-3.4 = 6.9x$	<p>get x by itself</p> <p>add 1.8x to both sides</p> <p>subtract 9.7 from both sides</p> <p>divide both sides by 6.9</p>

7) Solve for x:

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

$$\begin{aligned} -13.8 + 6.3x &= 21.1x - 5.9 \\ -13.8 + 6.3x - 6.3x &= 21.1x - 5.9 - 6.3x \\ -13.8 &= 14.8x - 5.9 \\ -13.8 + 5.9 &= 14.8x - 5.9 + 5.9 \\ -7.9 &= 14.8x \\ \frac{-7.9}{14.8} &= \frac{14.8x}{14.8} \end{aligned}$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why
$\begin{aligned} y + 8.2 &= -3.4y - 11.6 \\ -8.2 & \quad -8.2 \\ \hline y &= -3.4y - 19.8 \\ y + 3.4y &= -3.4y - 19.8 + 3.4y \\ 4.4y &= -19.8 \\ \frac{4.4y}{4.4} &= \frac{-19.8}{4.4} \\ y &= -4.5 \end{aligned}$	<p>Subtract 8.2 from both sides.</p> <p>Add 3.4y to both sides.</p> <p>Combine like terms.</p> <p>Divide both sides by 4.4.</p>

9) Solve for x:

$$\frac{3x+8}{7} = -12x$$

$$-3x + 4x - 12 = -12x + 3x$$

$$-9 = -15x$$

10) Solve for x:

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

$$5.2x + 15.7 = -9.2x + 15.8$$

$$5.2x + 5.2 = -9.2x$$

$$-14.4 = -14.4$$

$$\begin{array}{r} 12.6 \\ + -7.4 \\ \hline 5.2 \end{array}$$

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4/5
PREBrilliant
prod. 2

1) Solve for y

$$-49 + 2y = 4 - 4$$

$$= -5$$

$$-5 + 49$$

$$= -10$$

$$y = -10$$

2) Solve for x:

$$\frac{x}{-4} + 6 = -3 - 6$$

$$= -3$$

$$x \times 2 = 12$$

$$x = 6$$

3) Solve for x:

$$2x + 5x = 6$$

$$7x = 6$$

$$x = \frac{6}{7}$$

$$x = \frac{6}{7}$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$-7 - 4y = -3$ $-2 - 6y = 0$ $y = -\frac{1}{3}$	<p>In the first step, we subtracted 7 from both sides of the equation to isolate the term with y. In the second step, we subtracted 4y from both sides to get all y terms on one side. In the third step, we divided both sides by -6 to solve for y.</p>

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$$-8 - 7 = -3 - 7$$

$$-15 - 2 = -17 \quad y = -1$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$-1.8x - 6.3 = 5.5x$ $\begin{array}{r} -1.8 \\ -6.3 \\ \hline 5.5 \end{array}$ $-1.8x - 6.3 = 5.5x$ $-1.8x - 5.5x - 6.3 = 5.5x - 5.5x$ $-7.3x - 6.3 = 0$ $-7.3x = 6.3$ $x = -0.86$	<p>Subtract 6.3 from both sides</p> <p>Subtract 5.5x from both sides</p> <p>Combine like terms</p> <p>Subtract 5.5x from both sides</p> <p>Combine like terms</p> <p>Divide both sides by -7.3</p> <p>Simplify</p>

7) Solve for x:

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

$$-13.8 - 6.3x - 5.9 - 21.1x$$

$$\begin{array}{r} -13.8 \\ -5.9 \\ \hline -19.7 \end{array}$$

$$\begin{array}{r} 21.1x \\ -6.3x \\ \hline 14.8x \end{array}$$

$$\begin{array}{r} 14.8x \\ -14.8x \\ \hline 0 \end{array}$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why

9) Solve for x :

$$\frac{3x+8}{7} = -12x$$

10) Solve for x :

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

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1/5
PRE

Pr/1/2 prod. 2

1) Solve for y

$$\begin{array}{rcl} 9 + 2y & = & 4 \\ -9 & & -9 \\ \hline 2y & = & -5 \\ \div 2 & & \div 2 \\ \hline y & = & -2.5 \end{array}$$

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

3) Solve for x :

$$2x + 5x = 6$$

4) Solve for y :

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why

7) Solve for x :

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

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PRE

Bills
md. 2

1) Solve for y

$$\cancel{9} - \cancel{4} + 2y = 4 - 9 = -5$$

$$\frac{2y}{2} = \frac{-5}{2} = y = -2.5$$

$$\begin{array}{r} 2 \overline{) 5} \\ \underline{4} \\ 1 \end{array}$$

2) Solve for x:

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

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

$$-\frac{4}{1} - \frac{9}{1} = \frac{36}{1}$$

$$x = 36$$

3) Solve for x:

$$2x + 5x = 6$$

$$2 + 5 = 7$$

$$\frac{7x}{7} = \frac{6}{7}$$

$$7 \sqrt{6}$$

$$x = 0.1$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
1. $4 + -7 = 5 + 6$	Subtract -7 from both sides
$4 + 5 + 6 = 7$	(because you want y near each other)
2. $4y + 6y = 5 + -7$	factor for y
3. $y(4 + 6) = (5 + -7)$	(so you can get the y by itself)
$\frac{y(4 + 6)}{4 + 6} = \frac{5 + -7}{4 + 6}$	to get y by itself
$y = \frac{5 + -7}{4 + 6}$	divide it by $4 + 6$

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$$-3 - 7 = -8 + 2y - 8$$

$$-3 - 7 = 2y - 8$$

$$y \left(\frac{-8 + 8}{2 - 8} \right) = \frac{-3 - 7}{2 - 8}$$

$$y = \frac{-3 - 7}{2 - 8}$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

	Show your work here	For each step, explain why
1	$-1.8x + 6.3 = 9.7 + 5.1x$	Subtract both side
2	$6.3 = 9.7 + 5.1x - 1.8x$	by 1.8
3	$6.3 - 9.7 = 5.1x - 1.8x$	then subtract both side
4	$y(5.1 - 1.8) = 6.3 - 9.7$	by 9.7
5	$y = \frac{6.3 - 9.7}{5.1 - 1.8}$	factor for y divided by 5.1 - 1.8

7) Solve for x :

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

8) Solve for y :

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why

9) Solve for x :

$$\frac{3x+8}{7} = -12x$$

10) Solve for x :

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

4/13/07

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4/5

PRE

Bill
md.2

1) Solve for y

$$\begin{array}{r} 9 + 2y = 4 \\ -9 \quad -9 \quad -9 \\ \hline 2y = -13 \div 2 \\ y = -25 \end{array}$$

$$\begin{array}{r} 9 + 2y = 4 \\ -9 \quad 9 \\ \hline 0 \quad 2y = 13 \div 2 \end{array}$$

2) Solve for x:

$$\begin{array}{r} \frac{x}{-4} + 6 = -3 \\ -6 \quad 6 \\ \hline \frac{x}{-4} = -9 \div 4 \\ x = -9 \end{array}$$

3) Solve for x:

$$2x + 5x = 6$$

$$7x = 6$$

$$x = 0$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
 $4y + (-7) = 5 + 6y$ $\begin{array}{r} 4y + (-7) = 5 + 6y \\ -4y \quad -4y \\ \hline -7 = 5 + 2y \\ -5 \quad -5 \\ \hline -12 = 2y \\ \div 2 \quad \div 2 \\ -6 = y \end{array}$ 	 <p>I had to simplified the signs and then</p> <p>Divide by 2 and 4y</p>
$4y + (-7) = 5 + 6y$ $\begin{array}{r} 4y + (-7) = 5 + 6y \\ -4y \quad -4y \\ \hline -7 = 5 + 2y \\ -5 \quad -5 \\ \hline -12 = 2y \\ \div 2 \quad \div 2 \\ -6 = y \end{array}$	

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$$\begin{array}{r} \cancel{7} + (-\cancel{8}y) = -3 + 2y \\ \cancel{7} \quad \times 2 \\ \hline 3 + 6 = 6 \end{array} \quad \begin{array}{r} -3 + 2y \\ \times 2 \\ \hline -4 = 3 \end{array}$$

$$= +8$$

$$\frac{x = -3 - 7}{2 + 8}$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$\begin{array}{r} \cancel{1.8}x + \cancel{6.3} = 9.7 + \cancel{5.1}x \\ \cancel{6.3} \quad \cancel{6.3} \quad \cancel{5.1} \quad \cancel{5.1} \\ \hline -7.3x = 0 \\ \hline -7.3x = 0 \end{array}$	
$x =$	

7) Solve for x:

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

$$-13.8 + 6.3 = 21.1x + (-5.9)$$

$$13.8 + 6.3$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

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9) Solve for x :

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75
PRE
Bilka
md.2

1) Solve for y

$$9 + 2y = 4$$

11

$$\begin{array}{r|l} 2y & 2y \\ \hline & -y = -2 \\ & y = 2 \end{array}$$

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

$$-4 \div 6 = 10 \div 3 = 3$$

3) Solve for x :

$$2x + 5x = 6$$

4) Solve for y :

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$7.10 = 14.8x$	

7) Solve for x :

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

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