

POST

Bilko
prd. 6

Unit 18 Review of Linear Equations – Form C

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

$$6 + 8y = 1 - 6$$

$$8y = 1 - 6$$

$$8y = -5$$

$$y = -\frac{5}{8}$$

$$y = -\frac{5}{8}$$

Post Test

Timed 20 min

w/ mental effort.

Form C

Pd 6

2) Solve for x:

$$4\frac{x}{-3} + 4 = -7 - 4$$

$$\frac{x}{-3} = -7 - 4$$

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

$$x = 9$$

$$x = 9$$

Liam Anthony

Wilkinsburg

Bilko - Pd. 6

Post-Tests (11)
& Mental Effort

3) Solve for x:

$$3x + 2x = 12$$

$$\begin{array}{cc} 3 * 2 + 2 * 3 = & \\ \vee & \vee \\ x=2 & x=3 \end{array}$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$3x + 2x = 12$ $6y = 4y - 3$ $\underline{6y = 1y}$ $y = \frac{1}{5}$	<p>The reason why I first added -3 to both sides is because I wanted to get the left side 3's to cancel out. then I solved $2 + 2y - 3$ because that was the next step I got $6y = 4y - 3$ then after that I simplified my answer for that and I ended up with $y = \frac{1}{5}$.</p>

5) Solve for y:

$$8 = 8 + (-5y) = -1 + 4y - 8$$

$$8 - 8 = -1 + 4y - 8$$

$$-5y = -5y$$

$$y = 1$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why

7) Solve for x :

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

8) Solve for y :

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

Unit 18 Review of Linear Equations – Mental Effort Survey

Please circle the answer that best represents how you felt about the amount of mental effort you spent while working with in Unit 18.

How much mental effort during the study?

In solving or studying Unit 18, I invested, spent, or felt

1. very, very low mental effort
2. very low mental effort
3. low mental effort
4. rather low mental effort
5. neither low nor high mental effort
6. rather high mental effort
7. high mental effort
8. very high mental effort
9. very, very high mental effort

Was the mental effort the normal amount?

The mental effort I spent or felt was

1. very, very much less than normal tutor use
2. very much less than normal tutor use
3. much less than normal tutor use
4. a little less than normal tutor use
5. neither more nor less than normal tutor use
6. a little more than normal tutor use
7. much more than normal tutor use
8. very much more than normal tutor use
9. very, very much more than normal tutor use

Where did the mental effort come from?

The mental effort I spent or felt came from

1. mostly thinking about the problems
2. mostly trying to use the computer interface
3. about the same amount for both

Unit 18 Review of Linear Equations – Form C

POST

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Balk
prod-6

1) Solve for y

$$\begin{array}{r} -6 + 6 + 8y = 1 - 6 \\ 8y \quad | \quad 1 - 6 \\ 8y \quad | \quad 5 \\ \hline y = 5 \end{array}$$

2) Solve for x:

$$\begin{array}{r} -4 \quad \frac{x}{-3} + 4 = -7 - 4 \\ -3x \quad | \quad -3 \\ \hline x = -3 \end{array}$$

3) Solve for x:

$$3x + 2x = 12$$

$$\begin{array}{r} 3x \\ + 2x \\ \hline 5x \end{array}$$

$$5x = 12$$

$$x = 12$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$\begin{array}{l} -3 + 6y + (-3) = 2 + 2y + 3 \\ 6y = 2 + 2y + 3 \\ 6y - 4y = 5 \\ 2y = 5 \\ y = 15 \end{array}$	<p>I took -3 and added then to both sides, then got $6y = 2 + 2y + 3$ then got $6y - 4y = 5$ then added $2 + 2y$ and got $4y$ plus 3 and got $7y$ then $4y + 3$ with $6y = 7y$ and added $6 + 7$ and got 15 and they plug the y in and My final Answer $y = 15$</p>

5) Solve for y:

$$-8 + 8 + (-5y) = -1 + 4y - 8$$

$$\begin{array}{r} -5y \\ + 4 \\ \hline 1 \end{array}$$

$$\begin{array}{r|l} -5y & -1 + 4y - 8 \\ -5y & 3y - 8 \\ -5y & 5 \\ \hline & y = 5 \end{array}$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$\begin{array}{r l} -3.2 + -4.8x + 3.2 & 8.9 + 2.5x - 3.2 \\ -4.8x & 8.9 + 2.5x - 3.2 \\ -4.8x & 6.2 \\ \hline & y = 1.3 \end{array}$	<p>I added -3.2 to both sides and got $-4.8x$ and $8.9 + 2.5x - 3.2$ for the other side then $-4.8x$ and added up $8.9 + 2.5$ and got $11.4 - 3.2$ and got 6.2 then $y = 1.3$</p>

7) Solve for x:

$$\begin{array}{r}
 -7.4 + 17.3x = 8.1x + (-24.6) - 7.4 \\
 17.3x \quad 8.1x + (-24.6) - 7.4 \\
 17.3x \quad 25.4 \\
 17.3x \quad 2.43 \\
 x = 12.43
 \end{array}$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why
$ \begin{array}{l} -9.9 + y + 9.9 = -6.3y + (-4.2) - 9.9 \\ y = -6.3y + (-4.2) - 9.9 \\ y = 5 \end{array} $	<p>added -9.9 to both</p> <p>Siden an got $y =$</p> <p>$-6.3y + (-4.2) - 9.9$ and</p> <p>did the math for</p> <p>that and got $y = 5$</p>

Unit 18 Review of Linear Equations – Mental Effort Survey

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2. very low mental effort
3. low mental effort
4. rather low mental effort
- ☒ 5. neither low nor high mental effort
- ☒ 6. rather high mental effort
7. high mental effort
8. very high mental effort
9. very, very high mental effort

Was the mental effort the normal amount?

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3. much less than normal tutor use
4. a little less than normal tutor use
5. neither more nor less than normal tutor use
6. a little more than normal tutor use
7. much more than normal tutor use
- ☒ 8. very much more than normal tutor use
9. very, very much more than normal tutor use

Where did the mental effort come from?

The mental effort I spent or felt came from

- ☒ 1. mostly thinking about the problems
2. mostly trying to use the computer interface
3. about the same amount for both

$$\begin{array}{r}
 \underline{5} \\
 6.6 - \\
 \underline{5.6 -} \\
 21.2 + \\
 5.9
 \end{array}$$

$$\begin{array}{r}
 2.43 \\
 \underline{7.4} \\
 13.27 \\
 \underline{7.4} \\
 21.6 \\
 8.1
 \end{array}$$

$$\begin{array}{r}
 25.4 \\
 \underline{8.1} \\
 17.3
 \end{array}$$

$$\begin{array}{r}
 6.1 \\
 \underline{1.3} \\
 4.8
 \end{array}$$

$$\begin{array}{r}
 1.3 \\
 \underline{4.8} \\
 16.12
 \end{array}$$

$$\begin{array}{r}
 16.2 \\
 \underline{2.5} \\
 11.4 \\
 \underline{2.5} \\
 8.9
 \end{array}$$

Unit 18 Review of Linear Equations – Form C

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Biller
prod. 6

1) Solve for y

$$-6 + 6 + 8y = 1 - 6 = -5$$

$$\frac{8y}{8} = \frac{-5}{8}$$

2) Solve for x:

$$-4 - \frac{x}{-3} + 4 = -7 - 4 = -11$$

$$-3 \cdot \frac{x}{-3} = -11 \cdot 3$$

$$\cancel{x = -33} \quad x = 33$$

3) Solve for x:

$$3x + 2x = 12$$

$$\cancel{3}x = 12$$

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

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$3 + 6y + (-3) = 2 + 2y + 3$	Add both sides by 3
$2y - 6y = 5 + 2y - 2y$	Subtract $2y$ from both sides
$\frac{4y}{4} = \frac{5}{4}$	Divide both sides by 4
$y = \frac{5}{4}$	

5) Solve for y:

$$5y + 8 + (-5y) = -1 + 4y + 5y$$

$$1 + 8 = -1 + 9y + 1$$

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

$$1 = y$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$-2.5x - 4.8x + 3.2 = 8.9 + 2.5x - 2.5x$	Subtract $2.5x$ from both sides
$-3/2 + -7.3x + 3/2 = 8.9 - 3.2$	subtract 3.2 from both sides
$\frac{-7.3x}{-7.3} = \frac{5.7}{-7.3}$	Divide both sides by -7.3
$x = \frac{5.7}{-7.3}$	

7) Solve for x:

$$24.6 + -7.4 + 17.3x = 8.1x + (-24.6) + 24.6$$

$$\begin{array}{r} 24.6 \\ - 7.4 \\ \hline 17.2 \end{array}$$

$$17.3x - 17.2 + 17.3x = 8.1x - 17.3x$$

$$\begin{array}{r} 17.2 = -10.8x \\ -10.8 \quad -10.8 \\ \hline \end{array}$$

$$\begin{array}{r} 17.2 \\ - 17.3x \\ \hline -10.8 \end{array}$$

$$x = \frac{17.2}{-10.8}$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why
$4.2 + y + 9.9 = -6.3y + (-4.2) + 4.2$	Add 4.2 to both sides
$y - 14.1 + y = -6.3y - y$	Subtract y from both sides
$\frac{14.1}{5.3} = \frac{5.3y}{5.3}$ $y = \frac{14.1}{5.3}$	Divide both sides by 5.3

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The mental effort I spent or felt was

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6. a little more than normal tutor use
7. much more than normal tutor use
8. very much more than normal tutor use
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Where did the mental effort come from?

The mental effort I spent or felt came from

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Unit 18 Review of Linear Equations – Form C

POST

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.

Billie
prod. b

1) Solve for y

$$6 + 8y = 1$$

$$\textcircled{6} - 6 + 8y = 1 - 6$$

$$\frac{8y}{8} = \frac{-5}{8}$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

$$-4 + \frac{x}{3} + 4 = -7 - 4$$

$$\frac{3}{1} \times \frac{x}{3} = -11 \times 3$$

$$x = -33$$

3) Solve for x:

$$3x + 2x = 12$$

$$-3x + 3x + 2x = 12$$

$$\frac{-1x}{-1} = \frac{12}{-1} \quad x = -12$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y + (-3) = 2 + 2y$ $6y = 5 + 2y$ $4y = 5$ $\frac{4y}{4} = \frac{5}{4}$ $y = \frac{5}{4}$	<p>added 3 to both sides</p> <p>subtracted $2y$ from both sides</p> <p>$4y = 5$</p> <p>divided 4 from both sides.</p>

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$\cancel{5y} + 8 + \cancel{(-5y)} = -1 + 4y + 5y$$

$$\cancel{(-5y)} \quad 8 = -1 + 9y$$

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

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

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$ \begin{array}{r} -4.8x + 3.2 = 8.9 + 2.5x \\ \quad \quad \quad -3.2 \quad -3.2 \\ \hline -4.8x = 5.7 + 2.5x \\ \text{add } 4.8x \quad 4.8x \\ \hline 7.3x = 5.7 \\ \frac{7.3x}{7.3} = \frac{5.7}{7.3} \\ \hline x = 0.7808 \end{array} $	<p>Subtracted 3.2 from both sides</p> <p>$-4.8x = 5.7 + 2.5x$</p> <p>added 4.8x to both sides</p> <p>$7.3x = 5.7$</p> <p>divided 7.3 from both sides</p> <p>$x = 0.7808$</p>

7) Solve for x:

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

$$\cancel{+7.4} - \cancel{7.4} + 17.3x = 8.1x + (-24.6) + 7.4$$

$$\textcircled{17.3x} - 17.3x = 8.1x + 32$$

$$17.3x - 17.3x$$

$$\frac{-9.2x}{-9.2} = \frac{32}{-9.2}$$

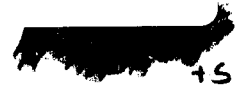
$$x = 3.47$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why
$y + 9.9 = -6.3y + (-4.2)$ 4.2 $y + 14.1 = -6.3y$ y $5.3y = 14.1$ 5.3 0.266	$\textcircled{4.2}$ 4.2 from both sides added $y + 14.1 = -6.3y$ sub 9 from both sides $5.3y = 14.1$ divided 5.3 from both sides $\textcircled{y} = 0.266$

Unit 18 Review of Linear Equations – Mental Effort Survey



Please circle the answer that best represents how you felt about the amount of mental effort you spent while working with in Unit 18.

How much mental effort during the study?

In solving or studying Unit 18, I invested, spent, or felt

1. very, very low mental effort
2. very low mental effort
3. low mental effort
4. rather low mental effort
5. neither low nor high mental effort
6. rather high mental effort
7. high mental effort
- ☒ 8. very high mental effort
9. very, very high mental effort

Was the mental effort the normal amount?

The mental effort I spent or felt was

1. very, very much less than normal tutor use
2. very much less than normal tutor use
3. much less than normal tutor use
4. a little less than normal tutor use
5. neither more nor less than normal tutor use
6. a little more than normal tutor use
7. much more than normal tutor use
- ☒ 8. very much more than normal tutor use
9. very, very much more than normal tutor use

Where did the mental effort come from?

The mental effort I spent or felt came from

- ☒ 1. mostly thinking about the problems
2. mostly trying to use the computer interface
3. about the same amount for both



Unit 18 Review of Linear Equations – Form C

PDST

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.

Billie
prod. b

1) Solve for y

$$6 + 8y = 1 - 6$$

$$y = 1.3$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7 - 4$$

$$x - 3 = 9$$
$$x = 12$$

3) Solve for x:

$$3x + 2x = 12$$

$$5x = 12$$

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

$$x = 2.2$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y + (-3) = 2 + 2y$ $6y + -1(-3) = 2 + 2y$ $6y + 3 = 2 + 2y$ $\frac{4y + 5}{4} = \frac{2 + 2y}{4} \quad y = 1.3$	<p>1) move -3 by +1</p> <p>2) subtract 1 to both sides</p> <p>3) subtract the remainder</p> <p>4) divide both sides by 4</p> <p>5) simplify</p>

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$\begin{array}{r} 8 + (-5y) = -1 + 4y \\ -1 \\ \hline -5y \\ 8 - 8 + 9y = -1 - 8 \\ 9y = -9 \\ \hline y = -1 \end{array}$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$\begin{array}{r} -4.8x + 3.2 = 8.9 + 2.5x \\ 4.8x - 6.3x + 3.2 = 8.9 \\ -2.5x + 3.2 = 8.9 \\ -3.2 - 3.2 \\ -2.5x = 5.7 \\ \hline x = -2.28 \end{array}$	<p>1) I combined like terms</p> <p>2) then I subtracted 3.2 from both sides</p> <p>3) And divided -2.5 by both sides</p>

7) Solve for x:

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

$$\begin{array}{r} -1 \\ 24.6 \end{array}$$

$$\begin{array}{r} 17.3 \\ 8.1 \\ \hline 25.4 \end{array}$$

$$-7.4 + 25.4x = 0$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

Unit 18 Review of Linear Equations – Mental Effort Survey

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How much mental effort during the study?

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1. very, very low mental effort
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Was the mental effort the normal amount?

The mental effort I spent or felt was

1. very, very much less than normal tutor use
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3. much less than normal tutor use
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7. much more than normal tutor use
8. very much more than normal tutor use
9. very, very much more than normal tutor use

Where did the mental effort come from?

The mental effort I spent or felt came from

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2. mostly trying to use the computer interface
3. about the same amount for both

Unit 18 Review of Linear Equations – Form C

PDS T

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.

Bill =
prd. 6

1) Solve for y

$$-6 + 8y = 1 - 6$$

$$8y = 1 - 6$$

$$y = -5/8$$

$$y = -1 \text{ with 3 left over}$$

2) Solve for x:

$$+3 \frac{x}{3} + 4 = -7 + 5$$

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

$$x + 4 = -4$$

$$x = -8$$

3) Solve for x:

$$-3x + 2x = 12 - 3$$

$$-x + 2x = 12 - 3$$

$$x + 2x = 9$$

$$3x = 9$$

$$x = 3$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why

5) Solve for y:

$$\cancel{+5} \quad 8 + (-5y) = -1 + 4y \quad \cancel{+5}$$

$$8 + y = -1 + 4y + 5$$

$$\cancel{-8} \quad 8y = -1 + 4y - 8$$

$$y = \frac{-1 + 4y - 8}{7}$$

$$y = 1y$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why

7) Solve for x :

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

8) Solve for y :

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

Unit 18 Review of Linear Equations – Mental Effort Survey

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6. a little more than normal tutor use
7. much more than normal tutor use
8. very much more than normal tutor use
9. very, very much more than normal tutor use

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Bilko
prd. 6

1) Solve for y

$$6 + 8y = 1$$

$$\begin{array}{r} 6 + 8y = 1 \\ -6 \\ \hline 8y = -5 \\ \div 8 \\ \hline y = -\frac{5}{8} \end{array}$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

$$\begin{array}{r} \frac{x}{-3} + 4 = -7 \\ -4 \\ \hline \frac{x}{-3} = -11 \\ \times -3 \\ \hline x = 33 \end{array}$$

3) Solve for x:

$$3x + 2x = 12$$

$$5x = 12$$

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

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y - 3 = 2 + 2y$ $6y - 2y = 2 + 3$ $4y = 5$ $\frac{4y}{4} = \frac{5}{4}$ $y = \frac{5}{4}$	<p>1 To isolate the variable y, subtract 2y from both sides of the equation.</p> <p>2 Add 3 to both sides of the equation.</p> <p>3 Simplify the equation.</p> <p>4 Divide both sides of the equation by 4 to solve for y.</p> <p>5 The solution is $y = \frac{5}{4}$.</p>

5) Solve for y:

$$-4y + 8 + (-5y) = -1 + 4y - 4y$$

$$-4y + 8 - 5y = -1$$

$$\begin{array}{r} 9y = -9 \\ \hline y = -1 \end{array}$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$-4.8x + 3.2 = 8.9 + 2.5x$ $-4.8x - 2.5x + 3.2 = 8.9$ $-7.3x + 3.2 = 8.9$ $-7.3x = 5.7$ $x = -0.78$	<p>Subtract $2.5x$ from both sides, UTD</p>

7) Solve for x:

$$7.4 + -7.4 + 17.3x = 8.1x + (-24.6) \quad 17.3$$

$$-8.1x + 8.1x + (-24.6) - 8.1x$$

$$9.2x - 17.3$$

$$9.2x - 9.2$$

$$x = -17.3 / 9.2$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

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Was the mental effort the normal amount?

The mental effort I spent or felt was

1. very, very much less than normal tutor use
2. very much less than normal tutor use
3. much less than normal tutor use
4. a little less than normal tutor use
5. neither more nor less than normal tutor use
- ☒ 6. a little more than normal tutor use
7. much more than normal tutor use
8. very much more than normal tutor use
9. very, very much more than normal tutor use

Where did the mental effort come from?

The mental effort I spent or felt came from

- ☒ 1. mostly thinking about the problems
2. mostly trying to use the computer interface
3. about the same amount for both

May 7, 2007

+3

Unit 18 Review of Linear Equations – Form C

POST

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.

bi/ka
prod. 6

1) Solve for y

$$6 + 8y = 1 \quad y = -15$$

$$144 - 15 = 1$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

$$\frac{x}{-3} + 4 - 4 = -7 - 4$$

$$\frac{x}{-3} = -11$$

3) Solve for x:

$$3x + 2x = 12$$

$$3x + 2x = 12$$

~~3x + 2x = 12~~

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y + (-3) = 2 + 2y$	

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$8 + (-5y) = -1 + 4y$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why

7) Solve for x :

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

8) Solve for y :

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

Unit 18 Review of Linear Equations – Mental Effort Survey

Please circle the answer that best represents how you felt about the amount of mental effort you spent while working with in Unit 18.

How much mental effort during the study?

In solving or studying Unit 18, I invested, spent, or felt

1. very, very low mental effort
2. very low mental effort
3. low mental effort
4. rather low mental effort
5. neither low nor high mental effort
- ☒ 6. rather high mental effort
7. high mental effort
8. very high mental effort
9. very, very high mental effort

Was the mental effort the normal amount?

The mental effort I spent or felt was

1. very, very much less than normal tutor use
2. very much less than normal tutor use
- ☒ 3. much less than normal tutor use
4. a little less than normal tutor use
5. neither more nor less than normal tutor use
6. a little more than normal tutor use
7. much more than normal tutor use
8. very much more than normal tutor use
9. very, very much more than normal tutor use

Where did the mental effort come from?

The mental effort I spent or felt came from

1. mostly thinking about the problems
2. mostly trying to use the computer interface
- ☒ 3. about the same amount for both

Unit 18 Review of Linear Equations – Form C

POST

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.

Bill
prod. b

1) Solve for y

$$6 + 8y = 1 \quad = -2$$

$$2 = 1.3$$

subtract by 6 on both sides

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

$$x = \frac{4}{-7} = -\frac{4}{7}$$

3) Solve for x:

$$\frac{3x+2x}{2-2} = 12$$

$$1+12 =$$

$$x =$$

subtract by 2 on both sides
Then divide the number u
get by 12

4) Solve for y:

$$\frac{6y + (-3)}{-3} = 2 + 2y$$

Show your work here	For each step, explain why
$6 - -3 = 3$ $3 \div 4 = \text{don't know}$ $y = \text{don't know}$	<p>Subtract -3 from both side then when you get your answer you divide by the answer you got and the answers on the other sides</p>

5) Solve for y:

$$\begin{array}{l} 8 + \cancel{5y} = -1 + 4y \\ -\cancel{5} \quad -\cancel{5} \end{array}$$

$$8 - -5 = -3$$

$$-1 + 4$$

$$y =$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why

7) Solve for x :

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

8) Solve for y :

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

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7. high mental effort
8. very high mental effort
9. very, very high mental effort

Was the mental effort the normal amount?

The mental effort I spent or felt was

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4. a little less than normal tutor use
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9. very, very much more than normal tutor use

Where did the mental effort come from?

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Unit 18 Review of Linear Equations – Form C

PDST

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.

Bills
prod. 6

1) Solve for y

$$-6 + 8y = 1$$

$$\frac{8y}{8} = \frac{7}{8}$$

$$y = \frac{7}{8}$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

$$\frac{x}{-3} = -11$$

$$\frac{-3x}{-3} = \frac{-33}{-3}$$

$$x = 11$$

3) Solve for x:

$$3x + 2x = 12$$

$$\frac{5x}{5} = \frac{12}{5} \quad 1.2 = x$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y + (-3) = 2 + 2y$ $5y + (-3) = 2$ $5y - 3 = 2$ $\frac{5y}{5} = \frac{5}{5}$	<p>First I subtracted 2y from both sides.</p> <p>Then I added the opposite of -3 to both sides.</p> <p>Finally I divided both sides by 5.</p>

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$-5y = -9$$

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

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

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$-4.8x + 2.5x = 8.9 - 3.2$ $-2.3x = 5.7$ $\frac{-2.3x}{-2.3} = \frac{5.7}{-2.3}$ $x = -2.5$	<p>I combined like terms on both sides of the equation.</p> <p>Then I divided both sides by -2.3.</p>

7) Solve for x:

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

7) $-7.4 + 17.3x = 8.1x + (-24.6)$

$$\frac{17.3x}{10} = \frac{-24.6}{10}$$

$$x = \underline{1.4}$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

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6. rather high mental effort
7. high mental effort
8. very high mental effort
9. very, very high mental effort

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Where did the mental effort come from?

The mental effort I spent or felt came from

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Unit 18 Review of Linear Equations – Form C

POST

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Bills
prod. b

1) Solve for y

$$6 + 8y = 1$$

$$6 - 6 + 8y = 1$$

$$\frac{8y}{8} = \frac{1-6}{8}$$

$$y = -0.5$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

$$\frac{x}{-3} + 4 = -7$$

$$x = -7$$

3) Solve for x:

$$3x + 2x = 12$$

$$5x = 12$$

$$x = 12$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y + (-3) = 2 + 2y$ $4y - 3 = 2$ $4y = 5$ $y = \frac{5}{4}$	<p>When I was trying to solve for y, I noticed that the equation was not in slope-intercept form, so I picked the first step.</p> <p>I added 3 to both sides of the equation to isolate the term with y.</p> <p>Then, I divided both sides by 4 to solve for y.</p>

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$8 + \overset{-8}{(-2y)} = -1 + 4y - 5$$

$$8 = \cancel{-1} + -1y$$

$$\frac{8 \pm -2y}{-2 \quad -2}$$

$$y = -4$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
	<p>I'm not to explain the steps, I'm just the decimal part</p>

7) Solve for x :

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

8) Solve for y :

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

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