Unit **18** Review of Linear Equations – Form **B**

Carnegie Learning
THE COGNITIVE TUTOR COMPANY

Q5DKsvE

Login: _____

School: _Wilkinsburg_

Teacher: _Mr. P_

Period: _Seven_

Date: _May 2, 2007_

Test (circle):   Pre-Test   (Post-Test)   Retention Test

Unit 18 Review of Linear Equations – Form B

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

1) Solve for y

$$9 + 2y = 4$$

$$-9 \qquad -9$$

$y = -2.5$

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

~~I is distracted from you~~

2) Solve for x:

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

$-6 \quad -6$

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

$$-4 = -9x$$

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

$$= 0.444$$

$$x = 0.444$$

3) Solve for *x*:

$$2x + 5x = 6$$

$7x = 6$

$x = 0.8571$

$x = 0.8571$

4) Solve for *y*:

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

Show your work here	For each step, explain why
$4y + -7 = 5 + 6y$ $\quad\quad\quad -5 \quad -5$ $\quad 4y \; -12 = 6y$ $-4y \quad\quad\quad -4y$ $\quad\quad -12 = 2y$ $\quad\quad \dfrac{}{2} \quad \dfrac{}{2}$ $\quad\quad\quad = -6$ $\quad\quad y = -6$	Simplify sign Subtracted both sides by 5 Subtract both side by 4 Divided

5) Solve for *y*:

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

$$7 - 8y = -3 + 2y$$
$$+3 \qquad +3$$
$$\overline{}$$
$$10 - 8y = 2y$$
$$+8y \quad +8y$$
$$\overline{}$$
$$10 = 10y$$
$$/10 \quad /10 = 1$$

$$x = 1$$

6) Solve for *x*:

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

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$ $-9.7 \quad -9.7$ $\overline{}$ $-1.8x - 3.4 = 5.1x$ $+1.8x \qquad +1.8x$ $\overline{}$ $-3.4 = 6.9x$ $-6.9 \quad -6.9$ $= -0.492\!\!\!/$	Subtract both sides (9.7) And both sides Divide both sides

7) Solve for x:

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

$$-13.8 + 6.3x = 21.1x - 5.9$$
$$+ 5.9 \qquad\qquad\qquad + 5.9$$

$$-7.9 + 6.3x = 21.1x$$
$$-6.3x \quad -6.3x$$

$$-7.9 = 14.8x$$
$$/14.8 \quad /14.8$$

$$x = -0.5337$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 8.2 = -3.4y - 11.6$ $+ 11.6 \qquad\qquad + 11.6$ $y + 19.8 = -3.4y$ $-y \qquad\qquad -(1)y$ $19.8 = -4.4y$ $/4.4 \quad /4.4$ $= 4.5$ $y = 4.5$	

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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School: _Wilkinsburg_

Teacher: _Mr O_

Period: _7th Period_

Date: _5/2/07_

Test (circle):   Pre-Test   Post-Test   Retention Test

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 yo~~ur work. When the question~~ asks you to explain, please explain your answer in plain English.

1) Solve for y

$$9 + 2y = 4$$
$$-9 \qquad -9$$
$$2y = -13$$
$$\frac{2y}{2} = \frac{-13}{2}$$
$$y = -13\tfrac{}{2}$$

2) Solve for x:

$$-4 \bullet \frac{x}{-4} + 6 = -3 \bullet -4$$
$$\frac{6x}{6} = \frac{12}{6}$$
$$x = 2$$

3) Solve for x:

$$2x + 5x = 6$$
$$\underline{\quad -5x \quad -5x \quad}$$
$$\frac{2x}{2} = \frac{1}{2}$$
$$x = 0.5$$

4) Solve for y:

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

Show your work here	For each step, explain why
$4y + \cdot 7 = 5 + 6y$	

5) Solve for y:

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

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

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:

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

$\frac{3x}{7} = \frac{8}{7}$

$.42 + 1.14 =$

10) Solve for x:

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

Unit 18 Review of Linear Equations – Form B

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DWi4Ume _____

School: Wilkinsburg high school

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Period: 7th

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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.

1) Solve for y

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

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

$$y = -2.5$$

2) Solve for x:

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

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

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

$$x = 0.4444$$

3) Solve for *x*:

$$2x + 5x = 6$$

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

$$x = 0.8571$$

4) Solve for *y*:

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

Show your work here	For each step, explain why
$4y + (-7) = 5 + 6y$ $+7 \quad +7$ $4y = 12 + 6y$ $-6y \qquad -6y$ $\dfrac{-2y}{-2} = \dfrac{12}{-2}$ $y = -6$	Subtract 7 Subtract 6y divide by -2

5) Solve for y:

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

$-7 \qquad -7$

$(-8y) = -10 + 2y$

$-2y \qquad -2y$

$-10y = -10$

$\overline{-10} \qquad \overline{-10}$

$$y = 1$$

6) Solve for x:

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

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$ $-6.3 \quad -6.3$ $-1.8x = 3.4 + 5.1x$ $-5.1x \qquad -5.1x$ $-6.9x = 3.4$ $\overline{-6.9} \quad \overline{-6.9}$ $x = -0.4928$	Subtract 6.3 Subtract 5.1x divide by -6.9x

7) Solve for x:

$$-13.8 + 6.3x = 21.1x + (-5.9)$$
$$+13.8 \qquad\qquad +3.8$$

$$6.3x = 21.1x + 7.9$$
$$-21.1x \quad -21.1x$$

$$-14.8x = 7.9$$
$$\overline{-14.8} \quad \overline{-14.8}$$

$$-0.5338$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 8.2 = -3.4y + (-11.6)$ $-8.2 \qquad\qquad -8.2$ $y = -3.4y + -19.8$ $+3.4y \quad +3.4y$ $4.4y = -19.8$ $\overline{4.4} \qquad \overline{4.4}$ $x = 4.4$	Subtract 8.2 Subtract 3.4y divide by 4.4

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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School: Willingboro High

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Test (circle):   Pre-Test   (Post-Test)   Retention Test

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.

1) Solve for y

$$9 + 2y = 4$$
$$-9$$
$$\text{subtract}$$

$$2y = -5 \quad \text{divide}$$
$$\overline{2y \quad 2y}$$

$$y = -2.5 \quad \text{Answer}$$

2) Solve for x: Don't remove

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

3) Solve for x:

$$2x + 5x = 6$$

$$-5 \quad -5$$

$$2x = 1$$

$$x = 0.5$$

4) Solve for y:

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

Show your work here	For each step, explain why
$4y + (-7) = 5 + 6y$ $4y - 7 = 5 + 6y$	← Distribute because negative seven is in ( ). ← Add/subtract terms

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:

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

Unit 18 Review of Linear Equations – Form B

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Teacher: _____

Period: _____

Date: _____

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Unit 18 Review of Linear Equations – Form B

You have 15 minutes to answer as many questio̶n̶s̶ ̶a̶s̶ ̶y̶o̶u̶ ̶c̶a̶n̶.̶ ̶D̶o̶n̶'̶t̶ ̶w̶o̶r̶r̶y̶ if you can't answer all the questions. Please sho̶w̶ ̶a̶l̶l̶ ̶y̶o̶u̶r̶ ̶w̶ork. When the questi̶o̶n̶ ̶a̶sks you to explain, please explain your answer in plain English.

1) Solve for y

$$9 + 2y = 4$$

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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Teacher: _N._____

Period: _7_____

Date: _5/2/07_____

Test (circle):   Pre-Test   (Post-Test)   Retention Test

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.

1) Solve for y

$$9 + 2y = 4$$

$$-9 \qquad -9$$

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

$$\boxed{x = -2.5}$$

2) Solve for x:

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

$$-6 \quad -6$$

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

$$\times 4 \qquad \times 4$$

$$\boxed{x = -36}$$

3) Solve for x:

    $2x + 5x = 6$

4) Solve for y:

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

Show your work here	For each step, explain why
$4y + (-7) = 5 + 6y$ $+7 \quad +7$ $4y = 12 + 6y$ $-6y \quad -6y$ $\dfrac{-2y}{-2} = \dfrac{12}{-2}$ $\boxed{y = -6}$	Subtract Subtract Divide

Unit 18 Form B

5) Solve for y:

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

$$-7 \qquad -7$$

$$-8y = -1 + 2y$$

$$-2y \qquad -2y$$

$$\frac{-10y}{-10} = \frac{-10}{-10}$$

$$y = 1$$

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:

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

Unit 18 Review of Linear Equations – Form B

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School: _____

Teacher: _____

Period: _____

Date: _____

Test (circle):   Pre-Test   Post-Test   Retention Test

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.
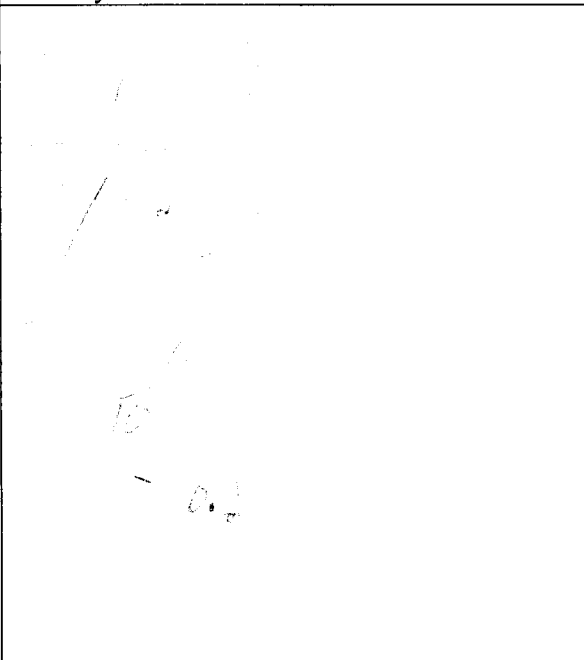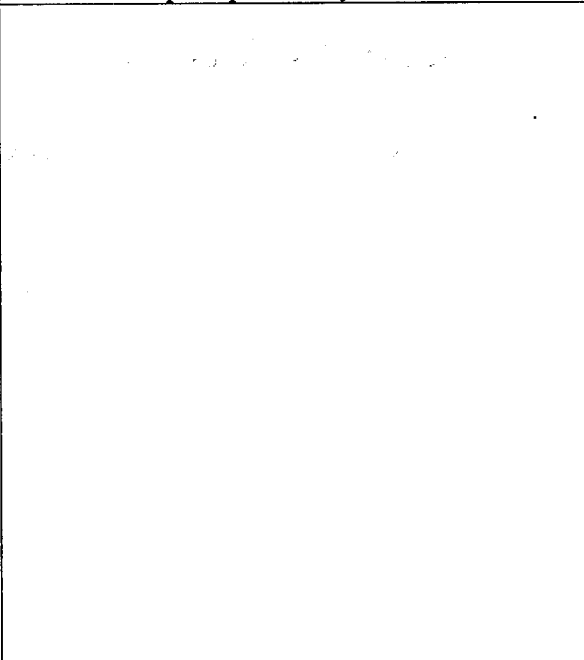
1) Solve for y

$$9 + 2y = 4$$

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

Unit 18 Review of Linear Equations – Form B

Login: Carnegie Learning   33w0X2b
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School: _Wilmary high school_

Teacher: _Mr. Adams_

Period: _7_

Date: _5-2-03_

Test (circle):   Pre-Test   (Post-Test)   Retention Test

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 w~~ork. When the question as~~ks you to explain, please explain your answer in plain English.

1) Solve for y

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

$$\frac{2y}{2} = \frac{-5}{2} \qquad y = -0.4$$

2) Solve for x:

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

3) Solve for *x*:

$$2x + 5x = 6$$

$$\frac{7x}{7} = \frac{6}{7} \qquad x = 1.\overline{857142}$$

4) Solve for *y*:

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

Show your work here	For each step, explain why
$-28 = 5 + 6y$ $-5 \quad -5$ $\underline{\qquad}$ $\frac{-33}{6} = \frac{6y}{6}$ $y = -5.5$	Cancel like terms subtract by 5 Then divide both by 6

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

$12 \cdot \frac{11x}{7} = -12x$

10) Solve for x:
$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

Unit 18 Review of Linear Equations – Form B

Login: Carnegie Learning THE COGNITIVE TUTOR COMPANY   V3JboV1   _____

School: Wilkinsourg High _____

Teacher: Mr. Oteino _____

Period: Seven (7) _____

Date: 5-2-07 _____

Test (circle):   Pre-Test   (Post-Test)   Retention Test

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 y~~ ████████ s you to explain, please explain your answer in plain English.

1) Solve for y

$$9 + 2y = 4$$
$$-9 \qquad -9$$
$$\frac{2y}{2} = \frac{-5}{2}$$
$$y = 2.5$$

2) Solve for x:

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

3) Solve for x:

$$2x + 5x = 6$$
$$-2 \qquad -2$$

$$x + 5x = 8$$

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:

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

$$\sim -13.8 \qquad\qquad -13.8$$

$$6.3x = 21x + 7.9$$
$$-7.9 \qquad\qquad -7.9$$

$$\frac{55.1}{21} = \frac{21x}{21}$$

$$2.6238 = x$$

8) Solve for y:

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

Show your work here	For each step, explain why

9) Solve for x:

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

$$21x + 56 = -12x$$
$$ -56 \quad\quad -56$$

$$\frac{21x}{21} = \frac{-68}{21}$$

$$x = -3.2380$$

10) Solve for x:

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

Unit 18 Review of Linear Equations – Form B

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Login: _____

School: _____

Teacher: _____

Period: _____

Date: _____

Test (circle):　　　　Pre-Test　　　　Post-Test　　　　Retention Test

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.

1) Solve for y

$$9 + 2y = 4$$

$$9 \quad - \quad -9$$

$$-y = -5$$

$$y = -5$$

2) Solve for x:

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

$$-6 \quad -6$$

$$\frac{x}{-4} = -1 \cdot -4$$

$$x = 3$$

3) Solve for x:

$$2x + 5x = 6$$

(faded handwritten work)

$$7x = 6$$

4) Solve for y:

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

Show your work here	For each step, explain why
(faded handwritten work) $-y$	

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