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
$$7 + 5y = 2$$

2) Solve for x:
$$\frac{x}{-5} + 8 = -2$$

3) Solve for x:

$$4x + 8x = 9$$

4) Solve for y:

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

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

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?

Was the mental effort the normal amount?

In solving or studying Unit 18, I invested, spent, or felt	**The mental effort I spent or felt was**
1. very, very low mental effort	1. very, very much less than normal tutor use
2. very low mental effort	2. very much less than normal tutor use
3. low mental effort	3. much less than normal tutor use
4. rather low mental effort	4. a little less than normal tutor use
5. neither low nor high mental effort	5. neither more nor less than normal tutor use
6. rather high mental effort	6. a little more than normal tutor use
7. high mental effort	7. much more than normal tutor use
8. very high mental effort	8. very much more than normal tutor use
9. very, very high mental effort	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

+5

POST

bilks
prd. 2

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:

$$4x + 8x = 9$$

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

$$X = \frac{9}{12} \text{ or } \frac{3}{4}$$

4) Solve for y:

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

Show your work here	For each step, explain why
$3y + (-8) = 5 + 4y$ $-3y \qquad -3y$ $\frac{-8 = 5 + y}{-5 \quad -5}$ $-13 = y$	All like terms subtract. Get y by it self

7) Solve for x:

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

(handwritten work, largely illegible)

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 12.3 = -4.1y + -9.2$ $+y \qquad +y$ $12.3 = -5.1y + -9.2$ $5.1 = -5.1y$ $-5.1 \quad -5.1$ $y = -1$	Add like terms get y on one side get y by it self

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

1VVSIbg

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

$$-3x7 + 5y = 2$$

$$2 = -3x$$

2) Solve for x:

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

3) Solve for x:

$-4x + 8x = 9$

$9 = 4x$

4) Solve for y:

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

Show your work here	For each step, explain why

7) Solve for x:

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

$X = 11.3$

8) Solve for y:

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

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
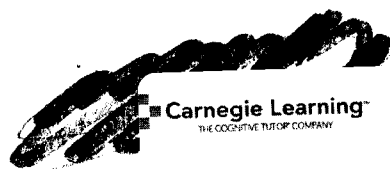
Was the mental effort the normal amount?

> **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

SqSIei2

+4

POST

Billks

prd·2

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

$$7 + 5y = 2$$

$$-7 \quad -7$$

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

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

$$|y$$

2) Solve for x:

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

3) Solve for x:

$$4x + 8x = 9$$

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

$$x \quad 4x$$

$$x + 4x = 9$$
$$x \qquad x$$

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

$$x = 2.25$$

4) Solve for y:

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

Show your work here	For each step, explain why
$3y + (-8) = 5 + 4y$ $-3 \qquad\qquad -3$ $y + (-8) = 5 + 1y$ $-8 = 5 + 1y$ $1 - 1$ $\dfrac{-7}{-8} = \dfrac{4y}{-8}$ $y = 0.05$	Subtract 3 by both sides then Subtracted by both sides, next subtracted 1 then divided

7) Solve for x:

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

$$-5.1 \quad -5.1$$

$$-2.8 + x = 6.7x + (-3.4)$$
$$-x \quad -x$$

$$-2.8 = 6.7x + (-3.4)$$
$$3.4 = 3.4$$
$$3.3x$$

$$\frac{-2.8}{-2.8} = \frac{3.3x}{-2.8}$$
$$= 0.5x$$

$$X = {}^-0.5$$

8) Solve for y:

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

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

May 7th 2004

+5

Unit 18 Review of Linear Equations – Form A

POST

Brilho
pra.2

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

$$-17 + 5y = 2 - 7$$

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

$$y = -1$$

2) Solve for x:

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

$$x + 8 = 10$$

3) Solve for x:

$$4x + 8x = 9$$

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

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

4) Solve for y:

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

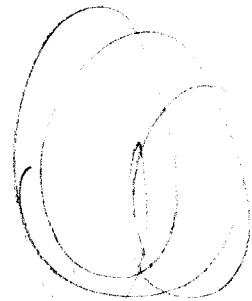| Show your work here	For each step, explain why
$3y + (-8) = 5 + 4y$ $\qquad$ $12y + (-8) = 5 \cdot 8$ $\qquad$ $\frac{12y}{12} = \frac{3}{12}$ $\qquad$ $y = \frac{5}{12}$	first I added my y and then I took away the eight After that I divided by twelve got $\frac{3}{12}$

7) Solve for x:

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

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

$+ -2.8 + x = 8.6 +$

$x = 12.8$

8) Solve for y:

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

Show your work here	For each step, explain why
$5.1y + 12.3 = 9.2$ $5.1y = 3.1$	first I put my y's together then got rid of the 5.1 giving me a total

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 A

POST

Milha
prd. 2

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

$$7 + 5y = 2$$

$$-7 \quad -7$$

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

$$y = -1$$

2) Solve for x:

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

$$-8 \cdot -8$$

$$\frac{x}{5} = 6$$

$$x = 30$$

3) Solve for *x*:

$$4x + 8x = 9$$

$$y = 2.25$$

4) Solve for *y*:

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

3)

Show your work here	For each step, explain why
$4x + 8x = 9$ $-4x \quad -4x$ $\dfrac{4x}{4} = \dfrac{9}{4}$ $x = 2.25$ $\begin{array}{r} 2.25 \\ 4\overline{)9} \\ -8 \\ \hline 18 \\ 8 \\ \hline 20 \end{array}$	$3y - 8 = 5 + 4y$ $-3y \qquad -3y$ $8 = 5 + 1y$ $-5 \cdot 5$ $\dfrac{3 = 1y}{1 \quad 1}$ $y = 3$ First I subtracted 3 from both sides, then 5 then I divided eachside by 1.

7) Solve for x:

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

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

$-2.8 = 6.7x - 3.4$
$ - 3.4 -3.4$
$1.4 + 5.1x = 11.8x$

$+2.8$
3.4

$\dfrac{-1.4}{16.9} \qquad \dfrac{16.9x}{16.9x}$

$x = -.083$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 12.3 = 4.1y - 9.2$ $+9.2 +9.2$ $1y + 21.5 = 4.1y$ $\dfrac{16.48}{16.48} \qquad \dfrac{9.2}{16.48}$ $y = 558$	I combined my link terms then subtracted Then divided 16.48 y then both sides.

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 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.

POST

Bilko

prd. 2

1) Solve for y

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

$\frac{5y}{5} = \frac{-5}{5} = -1$

2) Solve for x:

$\frac{x}{-5} + 8 = -2 - 8 = -10$

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

$x \cdot -5$

$-5x = \frac{50}{2 \cdot 5} = 2 \checkmark$

3) Solve for x:

$$4x + 8x = 9$$

$$12x = 9$$

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

$$x = 1.3$$

$$9\overline{)\begin{array}{c}1.3 \\ 12 \\ 9\end{array}}$$

$$\frac{}{3}$$

4) Solve for y:

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

Show your work here	For each step, explain why
$3\begin{array}{c} -3y + -8 = 5 + 4y - 3 \end{array}$ $-8 = 5 + 4y - 3y$ $3 \quad 8 = 3 + 1y - 3$ $-5 \quad \dfrac{-3}{17} = \dfrac{1y}{1}$	do whats in parentis 1st subract both sides by 3y combine like terms subtract both side by 3 divde by 1y

$$\begin{array}{r} 5.1 \\ 11.8 \\ \hline .7 \end{array}$$

7) Solve for x:

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

$-2.8 + 5.1 - 11.8 = 3.4$

$-2.8 + 6.7x = 3.4 - 2.8$

$\dfrac{6.7}{6.7} = \dfrac{0.6}{6.7}$

$$\begin{array}{r} 34 \\ 2.8 \\ \hline 0.6 \end{array}$$

0.3245

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 12.3 = -4.1y + -9.2 - 4.1y$ $-4.1y + y + 12.3 = -9.2$ $3.1 + 12.3 = 9.2$	

Unit 18 ~~...~~ 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

POST

Bilbo

prd 2

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

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

$$\frac{5y}{5} = \frac{5}{5} \qquad \cancel{x} \; 1$$

2) Solve for x:

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

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

$$x = -50$$

3) Solve for x:

$$4x + 8x = 9$$

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

4) Solve for y:

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

Show your work here	For each step, explain why
$3y + (-8) = 5 + 4y$ $3y + -8 = 5 + 4y$ $+ 8 \quad +4$ $3y = 13 + 4y$ $-13 \quad -13$ $\dfrac{3y}{3} = \dfrac{-17}{3}$ $y = \dfrac{-17}{3}$	I distributed what was in parentheses then subtracted from both sides then divided to get my answer

7) Solve for x:

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

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

$ +3.4 \qquad +3.4$

$-2.8 + 8.5 = 11.8x$

$+2.8 \qquad\qquad 2.8$

$$\frac{8.5}{14.6} = \frac{14.6x}{14.6} \qquad x = \frac{8.5}{14.6}$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 12.3 = -4.1y + -9.2$ $2 \qquad\qquad +9.2$ $y + 21.5 = -4.1y$ $-21.5 \qquad 21.5$ $y = 4.2$	I distributed what was in Parentheses the subtracted from both sides then divided

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 **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

$$7 + 5y = 2$$

2) Solve for x:

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

3) Solve for x:

$$4x + 8x = 9$$

4) Solve for y:

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

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

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?   Was the mental effort the normal amount?

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

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