

Name:

ANSWERS!

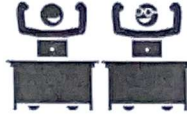
Class:



Communication



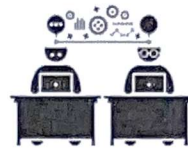
Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

What is the solution to this system of equations?

Equation A: $y = 3x - 1$

Equation B: $y = x + 3$

$$\begin{array}{r} 3x - 1 = x + 3 \\ -x \quad -x \\ \hline 2x - 1 = 3 \\ +1 \quad +1 \\ \hline 2x = 4 \\ \hline x = 2 \end{array}$$

$$\begin{array}{l} y = x + 3 \\ y = 2 + 3 \\ \hline y = 5 \end{array}$$

Question 03

What is the solution to this system of equations?

Equation A: $y = 2x - 2$

Equation B: $x + 3y = 15$

$$\begin{array}{r} x + 3(2x - 2) = 15 \\ x + 6x - 6 = 15 \\ 7x - 6 = 15 \\ +6 \quad +6 \\ \hline 7x = 21 \\ \hline x = 3 \end{array}$$

$$\begin{array}{l} y = 2x - 2 \\ y = 2(3) - 2 \\ \hline y = 4 \end{array}$$

Question 02

What is the solution to this system of equations?

Equation A: $y = 4x - 14$

Equation B: $y = 2x - 4$

$$\begin{array}{r} 4x - 14 = 2x - 4 \\ -2x \quad -2x \\ \hline 2x - 14 = -4 \\ +14 \quad +14 \\ \hline 2x = 10 \\ \hline x = 5 \end{array}$$

$$\begin{array}{l} y = 2x - 4 \\ y = 2(5) - 4 \\ \hline y = 6 \end{array}$$

Question 04

What is the solution to this system of equations?

Equation A: $y = x + 2$

Equation B: $3x + 2y = 14$

$$\begin{array}{r} 3x + 2(x + 2) = 14 \\ 3x + 2x + 4 = 14 \\ 5x + 4 = 14 \\ -4 \quad -4 \\ \hline 5x = 10 \\ \hline x = 2 \end{array}$$

$$\begin{array}{l} y = x + 2 \\ y = 2 + 2 \\ \hline y = 4 \end{array}$$

Question 05

What is the solution to this system of equations?

Equation A: $y = 3x - 1$

Equation B: $y = x + 5$

$$\begin{array}{r} 3x - 1 = x + 5 \\ -x \quad -x \end{array}$$

$$\begin{array}{r} 2x - 1 = 5 \\ +1 \quad +1 \end{array}$$

$$2x = 6$$

$$x = 3$$

$$y = x + 5$$

$$y = 3 + 5$$

$$y = 8$$

Question 06

What is the solution to this system of equations?

Equation A: $y = x - 5$

Equation B: $x + 3y = 13$

$$x + 3(x - 5) = 13$$

$$x + 3x - 15 = 13$$

$$4x - 15 = 13$$

$$+15 \quad +15$$

$$4x = 28$$

$$x = 7$$

$$y = x - 5$$

$$y = 7 - 5$$

$$y = 2$$

Question 07

What is the solution to this system of equations?

Equation A: $y = 5x - 15$

Equation B: $y = x + 5$

$$\begin{array}{r} 5x - 15 = x + 5 \\ -x \quad -x \end{array}$$

$$\begin{array}{r} 4x - 15 = 5 \\ +15 \quad +15 \end{array}$$

$$4x = 20$$

$$x = 5$$

$$y = x + 5$$

$$y = 5 + 5$$

$$y = 10$$

Question 08

What is the solution to this system of equations?

Equation A: $y = 4x + 4$

Equation B: $x + 2y = 44$

$$x + 2(4x + 4) = 44$$

$$x + 8x + 8 = 44$$

$$9x + 8 = 44$$

$$-8 \quad -8$$

$$9x = 36$$

$$x = 4$$

$$y = 4(x) + 4$$

$$y = 4(4) + 4$$

$$y = 16 + 4$$

$$y = 20$$