

Name:

**ANSWERS!**

Class:



Communication



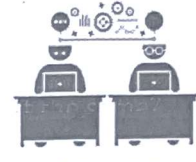
Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

What is the solution to the system of equations below?

$$y = 4x + 2$$

$$10x - 2y = 6$$

$$10x - 2(4x + 2) = 6$$

$$10x - 8x - 4 = 6$$

$$2x - 4 = 6$$

$$2x = 10$$

$$x = 5$$

$$y = 4x + 2$$

$$y = 4(5) + 2$$

$$y = 22$$

Question 02

What is the solution to the system of equations below?

$$y = 2x + 5$$

$$5x - 2y = -3$$

$$5x - 2(2x + 5) = -3$$

$$5x - 4x - 10 = -3$$

$$x - 10 = -3$$

$$x = 7$$

$$y = 2x + 5$$

$$y = 2(7) + 5$$

$$y = 19$$

Question 03

What is the solution to the system of equations below?

$$y = 3x - 8$$

$$2x + 3y = 42$$

$$2x + 3(3x - 8) = 42$$

$$2x + 9x - 24 = 42$$

$$11x - 24 = 42$$

$$11x = 66$$

$$x = 6$$

$$y = 3x - 8$$

$$y = 3(6) - 8$$

$$y = 10$$

Question 04

What is the solution to the system of equations below?

$$y = 4x - 5$$

$$2x + 2y = 20$$

$$2x + 2(4x - 5) = 20$$

$$2x + 8x - 10 = 20$$

$$10x - 10 = 20$$

$$10x = 30$$

$$x = 3$$

$$y = 4x - 5$$

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

$$y = 7$$

Lesson 4-11

Question 05

What is the solution to the system of equations below?

$$y = 3x + 8$$

$$2x - 10y = 4$$

$$2x - 10(3x + 8) = 4$$

$$2x - 30x - 80 = 4$$

$$-28x = 84$$

$$x = -3$$

$$y = 3x + 8$$

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

$$y = -1$$

Question 07

What is the solution to the system of equations below?

$$y = -2x + 8$$

$$3x + 2y = 10$$

$$3x + 2(-2x + 8) = 10$$

$$3x - 4x + 16 = 10$$

$$-x + 16 = 10$$

$$-x = -6$$

$$x = 6$$

$$y = -2x + 8$$

$$y = -2(6) + 8$$

$$y = -4$$

Question 06

What is the solution to the system of equations below?

$$y = 2x + 5$$

$$2x + 4y = 10$$

$$2x + 4(2x + 5) = 10$$

$$2x + 8x + 20 = 10$$

$$10x = -10$$

$$x = -1$$

$$y = 2x + 5$$

$$y = 2(-1) + 5$$

$$y = 3$$

Question 08

What is the solution to the system of equations below?

$$y = 5x + 6$$

$$3x + 3y = -18$$

$$3x + 3(5x + 6) = -18$$

$$3x + 15x + 18 = -18$$

$$18x = -36$$

$$x = -2$$

$$y = 5x + 6$$

$$y = 5(-2) + 6$$

$$y = -4$$