

Name: \_\_\_\_\_

**Answers!**

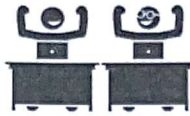
Class: \_\_\_\_\_



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

For each, write: (i) "One Solution" (ii) "No Solutions" or (iii) "Infinite Solutions"

Question 01

$$10x + 8 = 9x + 10 + x - 2$$

$$\underline{= 9x} \quad \underline{= 8x}$$

$$10x + 8 = 10x + 8$$

infinite Solutions

Question 02

$$10x + 8 = 9x + 10 + x + 2$$

$$\underline{= 9x} \quad \underline{= 11x}$$

$$10x + 8 = 10x + 12$$

$$\begin{array}{r} -10x \quad -10x \\ 8 = 12 \end{array}$$

No Solutions

Question 03

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

$$\underline{= 8x} \quad \underline{= 9x}$$

$$10x + 8 = 9x + 8$$

$$\begin{array}{r} -9x \quad -9x \\ x + 8 = 8 \end{array}$$

$$x + 8 = 8$$

$$\begin{array}{r} -8 \quad -8 \\ x = 0 \end{array}$$

$$x = 0$$

One Solutions

Question 04

$$5x + 1 = 6x - 1 - x + 2$$

$$\underline{= 6x} \quad \underline{= 5x}$$

$$5x + 1 = 5x + 1$$

infinite Solutions

Question 05

$$5x + 1 = \underline{4x - 1} + \underline{x - 2}$$

$$5x + 1 = 5x - 3$$

$-5x$        $-5x$

$$1 = -3$$

No solutions

Question 06

$$-2x + 1 = \underline{6x + 5} - \underline{8x - 4}$$

$$-2x + 1 = -2x + 1$$

$+2x$        $+2x$

$$1 = 1$$

Infinite solutions

Question 07

$$-2x + 1 = \underline{6x + 5} - \underline{8x + 4}$$

$$-2x + 1 = -2x + 9$$

$+2x$        $+2x$

$$1 = 9$$

No solutions

Question 08

$$-2x + 1 = \underline{6x + 5} + \underline{8x - 4}$$

$$-2x + 1 = 14x + 1$$

$-14x$        $-14x$

$$-16x + 1 = 1$$

$-1$        $-1$

$$-16x = 0$$

$x = 0$   
One solution

Question 09

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

$$8 - 2x = -2x + 8$$

$+2x$        $+2x$

$$8 = 8$$

Infinite solutions

Question 10

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

$$-8 - 2x = -2x + 8$$

$+2x$        $+2x$

$$-8 = 8$$

No solutions