

Name:

ANSWERS!

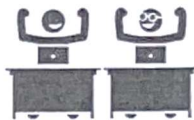
Class:



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

Solve for x.

$$6(x - 2 = \frac{1}{6}(2 + 4x))$$

$$6x - 12 = 2 + 4x$$

$$\begin{array}{r} -4x \\ -4x \end{array}$$

$$2x - 12 = 2$$

$$\begin{array}{r} +12 \\ +12 \end{array}$$

$$2x = 14$$

$$x = 7$$

Question 03

Solve for x.

$$7(x - 1 = \frac{1}{7}(6x - 1))$$

$$7x - 7 = 6x - 1$$

$$\begin{array}{r} -6x \\ -6x \end{array}$$

$$x - 7 = -1$$

$$\begin{array}{r} +7 \\ +7 \end{array}$$

$$x = 6$$

Question 02

Solve for x.

$$3(2x - 3 = \frac{1}{3}(1 + 4x))$$

$$6x - 9 = 1 + 4x$$

$$\begin{array}{r} -4x \\ -4x \end{array}$$

$$2x - 9 = 1$$

$$\begin{array}{r} +9 \\ +9 \end{array}$$

$$2x = 10$$

$$x = 5$$

Question 04

Solve for x.

$$3(x + 2 = \frac{2}{3}(x + 6))$$

$$3x + 6 = 2(x + 6)$$

$$3x + 6 = 2x + 12$$

$$\begin{array}{r} -2x \\ -2x \end{array}$$

$$x + 6 = 12$$

$$\begin{array}{r} -6 \\ -6 \end{array}$$

$$x = 6$$

Question 05

Solve for x.

$$6 \left( \frac{1}{2}(x+6) = \frac{1}{3}(2x+4) \right)$$

$$3(x+6) = 2(2x+4)$$

$$3x+18 = 4x+8$$

$$4x+8 = 3x+18$$

$$\begin{array}{r} -3x \\ -3x \end{array}$$

$$x+8 = 18$$

$$\begin{array}{r} -8 \\ -8 \end{array}$$

$$x=10$$

Question 07

Solve for x.

$$12 \left( \frac{1}{3}(x+1) = \frac{1}{4}(2x-2) \right)$$

$$4(x+1) = 3(2x-2)$$

$$4x+4 = 6x-6$$

$$6x-6 = 4x+4$$

$$\begin{array}{r} -4x \\ -4x \end{array}$$

$$2x-6 = 4$$

$$\begin{array}{r} +6 \\ +6 \end{array}$$

$$2x = 10$$

$$x=5$$

Question 06

Solve for x.

$$10 \left( \frac{1}{2}(x+4) = \frac{1}{5}(4x-2) \right)$$

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

$$5x+20 = 8x-4$$

$$8x-4 = 5x+20$$

$$\begin{array}{r} -5x \\ -5x \end{array}$$

$$3x-4 = 20$$

$$\begin{array}{r} +4 \\ +4 \end{array}$$

$$3x=24$$

$$x=8$$

Question 08

Solve for x.

$$6 \left( \frac{1}{2}(x+5) = \frac{2}{3}(x+2) \right)$$

$$3(x+5) = 4(x+2)$$

$$3x+15 = 4x+8$$

$$4x+8 = 3x+15$$

$$\begin{array}{r} -3x \\ -3x \end{array}$$

$$x+8 = 15$$

$$\begin{array}{r} -8 \\ -8 \end{array}$$

$$x=7$$