

Name:

ANSWERS!

Class:



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

Solve for x .

$$8x - 24 = x + 11$$

$$-x \quad -x$$

$$7x - 24 = 11$$

$$+24 \quad +24$$

$$7x = 35$$

$$x = 5$$

Question 02

Solve for x .

$$6x - 3 = -2x + 29$$

$$+2x \quad +2x$$

$$8x - 3 = 29$$

$$+3 \quad +3$$

$$8x = 32$$

$$x = 4$$

Question 03

Solve for x .

$$3x - 4 = 7x + 4$$

$$7x + 4 = 3x - 4$$

$$-3x \quad -3x$$

$$4x + 4 = -4$$

$$-4 \quad -4$$

$$4x = -8$$

$$x = -2$$

Re-write
to
bring
greater
number
of x 's
to
left!

Question 04

Solve for x .

$$-x - 20 = 5x + 40$$

$$5x + 40 = -x - 20$$

$$+x \quad +x$$

$$6x + 40 = -20$$

$$-40 \quad -40$$

$$6x = -60$$

$$x = -10$$

Lesson 4-4

Question 05

Solve for x .

$$7x - 4 = 2x + 11$$

$$\begin{array}{r} -2x \quad -2x \\ 5x - 4 = 11 \\ +4 \quad +4 \\ 5x = 15 \\ \boxed{x = 3} \end{array}$$

Question 07

Solve for x .

$$9x + 12 = 7x + 40$$

$$\begin{array}{r} -7x \quad -7x \\ 2x + 12 = 40 \\ -12 \quad -12 \\ 2x = 28 \\ \boxed{x = 14} \end{array}$$

Question 09

Solve for x .

$$2x + 4 = -3x + 39$$

$$\begin{array}{r} +3x \quad +3x \\ 5x + 4 = 39 \\ -4 \quad -4 \\ 5x = 35 \\ \boxed{x = 7} \end{array}$$

Question 06

Solve for x .

$$8x - 4 = -2x + 16$$

$$\begin{array}{r} +2x \quad +2x \\ 10x - 4 = 16 \\ +4 \quad +4 \\ 10x = 20 \\ \boxed{x = 2} \end{array}$$

Question 08

Solve for x .

$$-2x - 6 = 4x + 42$$

$$\begin{array}{r} 4x + 42 = -2x - 6 \\ +2x \quad +2x \\ 6x + 42 = -6 \\ -42 \quad -42 \\ 6x = -48 \\ \boxed{x = -8} \end{array}$$

Question 10

Solve for x .

$$-6x + 8 = -4x + 22$$

$$\begin{array}{r} -4x + 22 = -6x + 8 \\ +6x \quad +6x \\ 2x + 22 = 8 \\ -22 \quad -22 \\ 2x = -14 \\ \boxed{x = -7} \end{array}$$