Curriculum Outcome

PR1: . Generalize a pattern arising from a problem-solving context using linear equations and verify by substitution.

PR3. Model and solve problems using linear equations of the form:

ax = b; = b, a \neq 0; ax + b = c; +b = c, a \neq 0; = b, $x \neq$ 0 ax ax xa ax + b = cx + d; a(bx + c) = d(ex + f); a(x + b) = c; ax = b + cx concretely, pictorially and symbolically, where a, b, c, d, e, and f are rational numbers

EXTENSION to unit: Solving equations with fraction in them

Student Friendly: "Rearranging an equation to get all the variables by themselves". Taking care of a fraction.

Take out a piece of paper
-Put your name on the top





1)
$$10 - 2x = 85 + 3x$$

2)
$$\frac{-1x}{5} + 5 = \frac{9}{2}$$

3)
$$\frac{1}{3}$$
 (9x + 3) = $\frac{3}{2}$ (20x -8)

4)
$$6 - 5x + 3 - 2x = 4x - 5x - 7 + 8$$





1)
$$10 - 2x = 85 + 3x$$

 $\chi = -15$

2)
$$\frac{-1x}{5} + 5 = \frac{9}{2}$$

 $\chi = \frac{5}{3}$

3)
$$\frac{1}{3}$$
 (9x + 3) = $\frac{3}{2}$ (20x -8) $\chi = \frac{13}{2}$

4) 6 -5x + 3 - 2x = 4x -5x -7 + 8
$$x = \frac{4}{3}$$

13)
$$\frac{-21}{5} - \frac{16b}{5} = \frac{1b}{2} - \frac{1}{2}$$

$$\frac{-21}{5} - \frac{16b}{5} = \frac{1b}{2} - \frac{1}{2}$$

$$\frac{-210}{5} - \frac{160b}{5} = \frac{10b}{2} - \frac{10}{2}$$

$$-42 - 326 = 56 - 5$$

$$-42 - 326 = 56 - 5$$

$$-42 = 326 - 5$$

$$-42 = 326 - 5$$

$$-37 = 376 + 37$$

$$-42 = 376 - 5$$

$$-37 = 376$$

$$-1 = 6$$

$$-37 = 376$$

$$-1 = 6$$

$$-37 = 376$$

$$-1 = 6$$

$$\begin{bmatrix} -1 = b \end{bmatrix}$$

15)
$$\frac{3v}{5} - \frac{10}{3} = \frac{1}{15} - \frac{6v}{5} + \frac{7v}{2}$$

.

$$\frac{3v - 10}{5} = \frac{1}{15} - \frac{6v}{5} + \frac{7v}{2}$$

$$\frac{90v}{5} - \frac{300}{3} = \frac{30}{15} - \frac{180v}{5} + \frac{210}{2}v$$

$$18v - 100 = 2 - 36v + 105v$$

$$\boxed{18v} - 100 = 2 + 69v$$

$$|8\sqrt{-100}| = 2 + 69\sqrt{-18}$$

$$-|00| = 2 + 51\sqrt{-18}$$

$$-100^{2} = 2^{2} + 51$$

$$\frac{-102}{51} = \frac{51}{51}$$

$$\sqrt{-2} = \sqrt{}$$

17)
$$2m - \frac{6m}{5} = \frac{-5m}{3}$$

$$2m - \frac{(15)}{6m} = \frac{-5m}{3}$$

$$30m - \frac{90m}{5} = -\frac{75m}{3}$$

$$30m - 18m = -25m$$

$$12 m = -25m$$

$$+25m$$

$$12 m = -25m$$

$$\frac{37m}{37} = \frac{0}{37}$$





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Show all work. Don't worry about identifying which strategy you used.

Today #8 #10(acf) #11(a,c,e,f) #12 #15 #16 (ai) #17 19 #21

Do not use algebra tiles

When you see fractions you must work with fractions