Curriculum Outcomes:

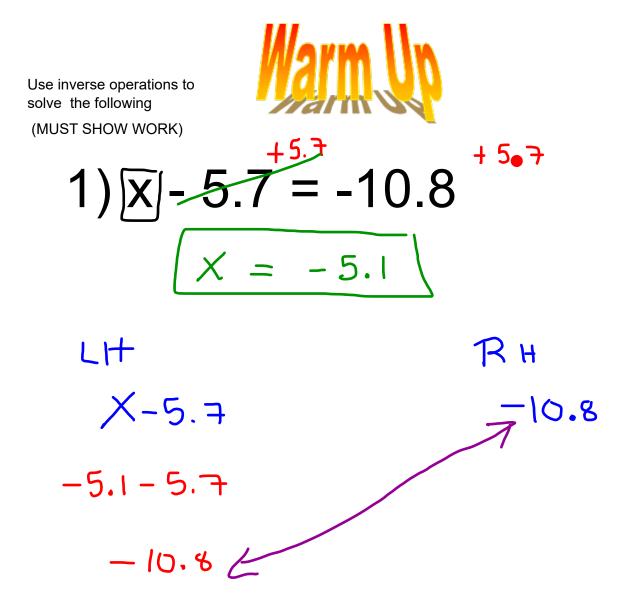
PR1: Generalize a pattern arising from a problem-solving context using linear equations and verify by substitution.

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

Student Friendly:

"Rearranging an equation with variables on both side of the equal sign"



2)
$$28.7 - 4t = 6.3^{-28.7}$$

$$-4t = -22.4$$

3)
$$\frac{5x^{(2)}}{6} \cdot \frac{3}{4} = \frac{-11}{3}$$

$$\frac{60x}{6} - \frac{36}{4} = \frac{-132}{3}$$

$$\frac{10x}{6} - \frac{36}{4} = \frac{-132}{3}$$

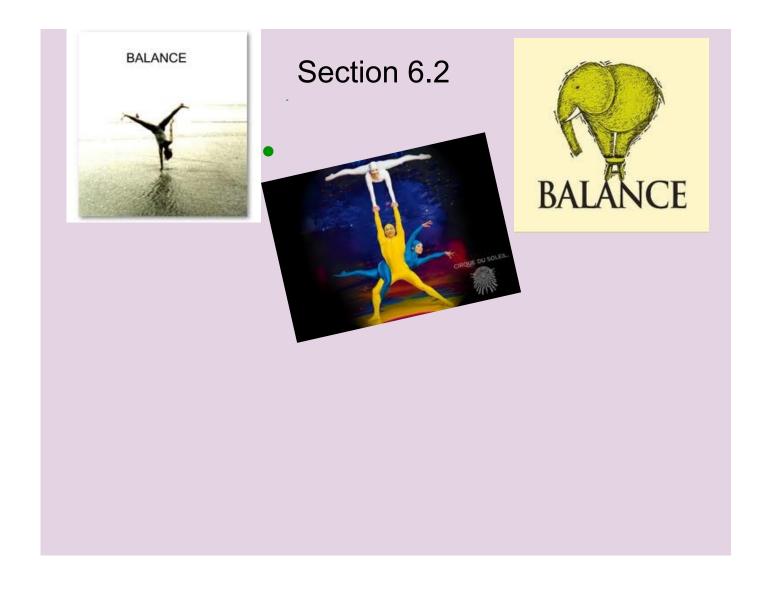
$$\frac{10x}{6} - \frac{36}{4} = \frac{-144}{3}$$

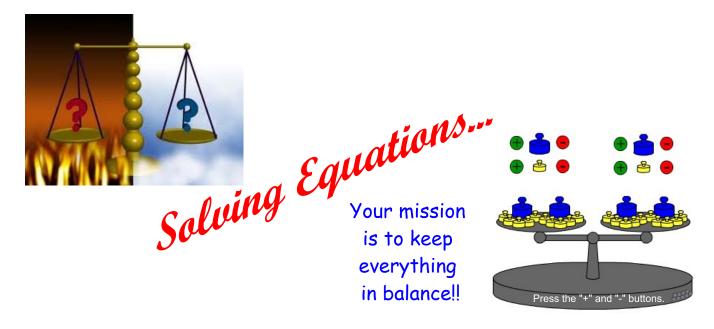
$$\frac{10x}{10} = \frac{-35}{10}$$

$$\frac{5(-\frac{1}{2})}{6} - \frac{3}{4}$$

$$\frac{5(-\frac{1}{2})}{2} - \frac{3}{4}$$

$$\frac{-35}{2} - \frac{3}{4}$$





What ever you do to one side... you must do to the other!!

Solve for x...

$$6x + 2 = 10 + 4x$$

$$2x + 2^{2} = 10^{-2}$$

$$2x = 8$$

$$2 = 8$$

$$\frac{2a}{3} = \frac{4a}{5} + 7$$

$$\frac{30a}{3} = \frac{60a}{5} + \frac{105}{5}$$

$$\frac{30a}{3} = \frac{60a}{5} + \frac{105}{5}$$

$$\frac{10a}{3} = \frac{12a}{4} + \frac{105}{5}$$

$$\frac{-105}{2} = \frac{2a}{4}$$

$$\alpha = -\frac{105}{2}$$

Algebra Practice Problems

Date:

Worksheet generated at www.math.com

1.)
$$-3 + x = -7$$

2.)
$$-10 + x = -10$$

3.)
$$7x + 4 = -66$$

4.)
$$-3x + 1 = -26$$

5.)
$$4x - 8 = 2x - 4$$

6.)
$$4 + 4x = -7x + 81$$

7.)
$$6 + 5x = 7x + 0$$

8.)
$$x + 2 = -18 - 4x$$

9.)
$$-2 - 5x = 6x + 31$$

10.)
$$5x - 1 = -2x + 41$$

11.)
$$-6x - 8 = -3 - 5x$$

12.)
$$3x + 3 = 11 - 5x$$

13.)
$$-6x + 5 = x - 30$$

14.)
$$-7x - 9 = -14 - 2x$$

http://www.math.com/cgi-bin/mathf_sp.pl

2/15/2016

Day 6_ Section_6.2_Solving_Equations_by_Balance_day2_2018.notebook February 05, 2020

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15.)
$$4x + 10 = -4x + 74$$

16.)
$$-9+4x=2x+1$$

17.)
$$7(10 + 2x) = -28$$

18.)
$$-6(-10-2x) = 84$$

1.) $\frac{x}{5} = 5$	$2.) \frac{x}{4} = -2$
3.) $-4 + 3x = -1$	4.) -8-4x=-36
5.) -9 + 6x + 5x = 57	6.) $3x + 7 + x = 7$
1 - 7x + 6x = -10	8.) $-4x-1+2x=-9$
9.) $-5x-9=x-57$	10.) $6x + 4 = 2x - 16$
11.) $7x + 9 = 17 + 6x$	12.) $7x + 10 = 4x - 17$
-1 + 6x = 3x + 2	14.) $-10 + 2x = 4x - 10$

