Consider this equation:

2x+y=31z+2a

· How is the equation like a · we don't balance

What does that mean to you of either side Mathematically? anything we do to one side has to be done

"to the other in order to "keep the balance"

equal on both Sides

· One operation on each side

Know the "real" value

- -> Starting today: New material (no more review)
- Defore the end of 12 quarter (10/28)

 the sooner the better!

 you will need to schedule time with
- -> Course syllabus on my web siteprint it, sign it, give to parents guardins to sign, returned by Fri. 9/26

Algebra - using variables and variable expressions to help and/or simplify problem solving

when you have an egostion, it will remain balanced if you add or subtract the same number from both sides of the equation

1 If the side of the equation that has the variable has a number added or subtracted add or subtract the opposite of that number

2 If the side of the equation that has the variable has a number multiplying or dividing the variable.

-divide both sides of the equation by numbers that are multiplying the variable

- Multiply both sides of the equation by numbers that are dividing the variable

- If there is a fraction multiplying the Voviable, multiply both sides of the equation by the reciprocal of that fraction

If the equation has both a coefficient for the variable and addition or subtraction, do step 1 12, and step 2 27.

4.
$$y + 5 = -13$$

 $45 + 5$
 $3 = -18$

5.
$$a - 17 = -10$$

6.
$$41 = 52 + m$$

7.
$$c - 2.4 = 1.8$$

8.
$$z + 4.1 = 9.6$$

 $+4.1$ $+4.1$
 $z = 5.5$

9.
$$-3.2 = 4.5 + 1$$

 $+ 4.5$
 $-7.7 = 7$

13.
$$-52 = -4y$$

 -4 -4 -4 -4 -4 -4 -4

143.
$$\frac{1}{3}n = 36.3$$

$$\frac{49}{3} \cdot -\frac{3}{4}a = \frac{12}{1} \cdot \frac{-4}{3} \cdot \frac{-4}{3}$$

$$49 \cdot -\frac{3}{4}a = \frac{12}{1} \cdot \frac{-4}{3} \cdot \frac{$$

16.
$$0.5y = 17$$

0.5 0.5
 $y = 34$

17.
$$\frac{-1.4a = 2.8}{-1.4} = \frac{-1.4}{-1.4}$$

18.
$$\frac{-6.5}{-1.3} = \frac{-1.3m}{-1.3}$$
5 = m

1.
$$3n + 14 = 35$$
 $+ 14 + 14$
 $- 35$
 $- 21$
 $- 36$
 $- 7$

4.
$$9c - 5 = 13$$
 $+5$
 $+5$
 $9c - 5 = 13$
 $+5$
 $9c - 5 = 13$
 $9c - 5 = 13$

2.
$$7y - 10 = 11$$
 $-70 + 10$
 $-7y = 21$
 $-7y = 3$
 $-7y = 3$

5.
$$4.6 = 4m - 3.4$$
 $+3.4$
 -3.4
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3.
$$14 = 9 - x$$

$$+ 9 + 7$$

$$-5 = -x$$

$$-5 = x$$

6.
$$1.2 = 2.4 - 3l$$

Homework: p. 138, 18-48 (every 3~), 54 p. 144, 3-33 (every 3~), 38-44 (even)