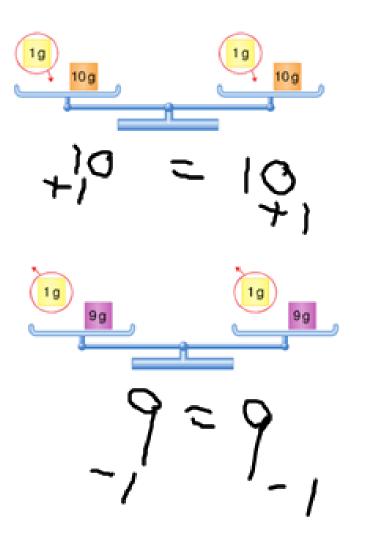
= symbol means both sides are exactly the same.

We can use a balance scale to show that the two sides are the same

If we add or subtract from one side we have to do it to the other side as well for the scale to stay balanced



both sides are 11 now

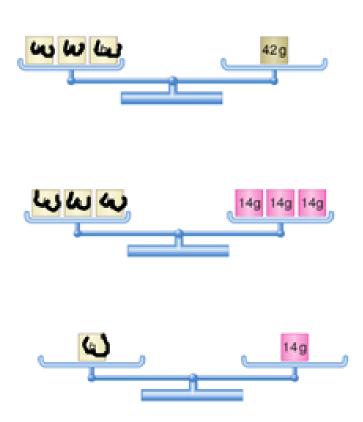
both sides are 8 now

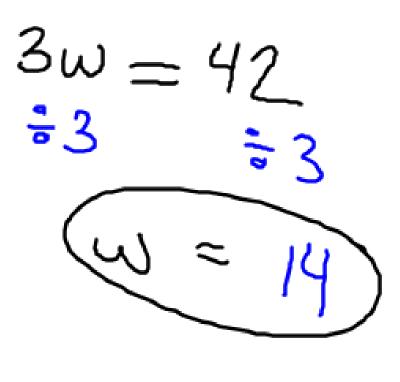
Example 1

Herman is in the last round of the spell-a-thon in his school.

A contestant receives 3 points for every word spelled correctly.

Herman has 42 points. How many words has he spelled correctly?





Pg 319 Sexample 2

Jodee is also a contestant in the spell-a-thon.

A contestant receives 3 points for every word spelled correctly.

Because of a technical penalty, Jodee loses 5 points. She now has 19 points.

How many words has Jodee spelled correctly?

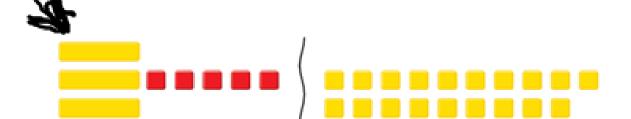
Let j represent the number of words Jodee has spelled correctly.

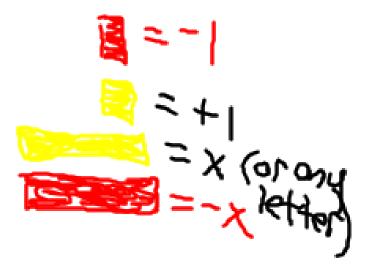
Then, the number of points she receives is 3j.

When the penalty is considered, the number of points is 3j - 5.

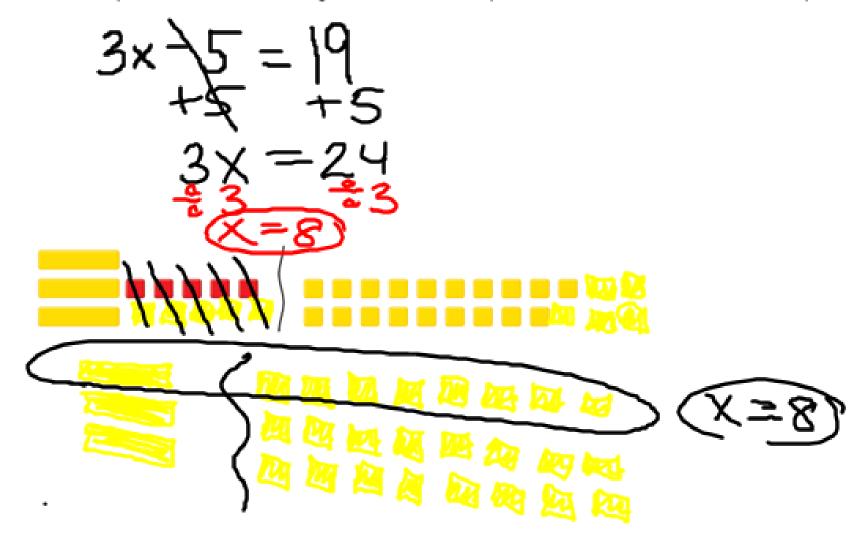
So, the equation is: 3j - 5 = 19

Yellow is positive. Red is negative. Sticks represent "x" and little blocks represent "1"





Yellow is positive. Red is negative. Sticks represent "x" and little blocks represent "1"

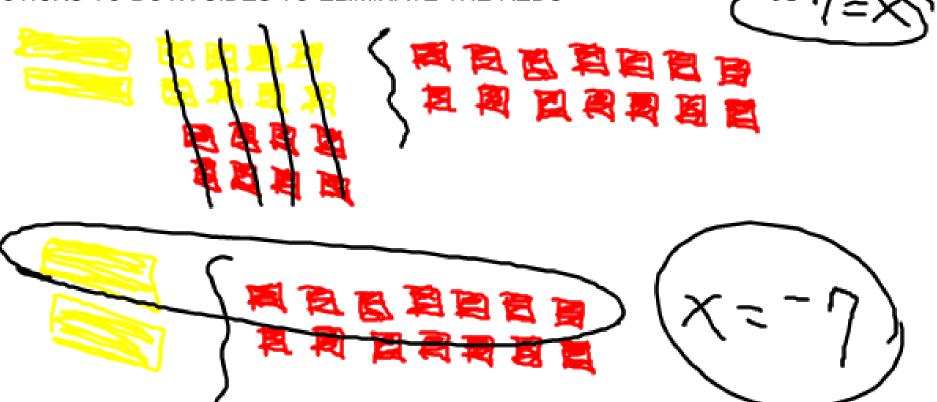


GOAL IN BALANCING IS ALWAYS TO GET DOWN TO ONE YELLOW STICK (X) ON ONE SIDE

Use algebra tiles to solve: 8 = -6 - 2x

8=-6-2X +6 +6 +6 = -2X -2

WE WANT A YELLOW STICK IN THE END. NOT RED. SO ADD 2 YELLOW STICKS TO BOTH SIDES TO ELIMINATE THE REDS



PRACTICE PG 324 #5-9, 10a, 11, 13