

# Activity 8 Assessment

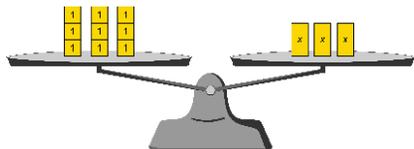
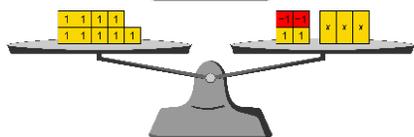
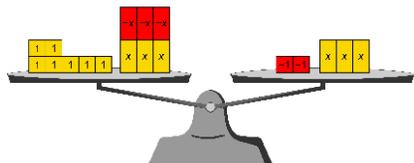
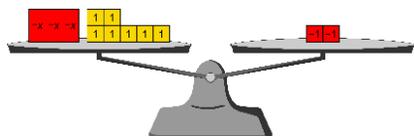
## Solving Equations with Multiple Terms

### Solving Equations with Multiple Terms

Solves equations of the form  $ax + b = c$ , where  $a$ ,  $b$ , and  $c$  are integers or decimals

$$-3x + 7 = -2$$

“Using a pan balance and algebra tiles, I determined that  $x = 3$ .”



To check, I can substitute 3 for  $x$  in the equation.”

Solves equations of the form  $\frac{x}{a} + b = c$ , where  $a$  is an integer  $\neq 0$ ,  $b$  and  $c$  are integers or decimals

$$\frac{x}{3} - 2 = 5$$

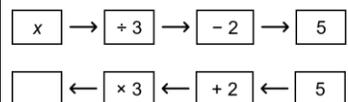
means that I start with  $x$ ,

divide by 3, and subtract 2 to get 5. So, if I add 2 to 5, I'll find out what

$\frac{x}{3}$  is. Then I can multiply by 3 to

find  $x$ .

I can record this with a flow chart.



$$x = 21$$

I can check by substituting 21 for  $x$  in the equation.”

Solves equations that involve multiple terms, integers, and decimals

$$10.5 + 2.5x = 4.5x - 2.5$$

“I want the  $x$ 's together and the constants together. I'll subtract  $2.5x$  from both sides and add  $2.5$  to both sides. I end up with:

$$10.5 + 2.5 = 4.5x - 2.5x \text{ or } 13 = 2x$$

I know that  $2 \times 6.5$  is 13, so  $x = 6.5$ . I will check by substituting 6.5 for  $x$  in the original equation.”

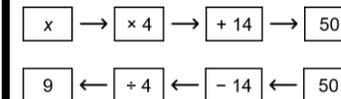
Writes and solves equations related to a real-life scenario

Marcus and 3 friends all order the same meal at a fast-food restaurant. Marcus pays for all the meals with a \$50 bill and gets \$14 in change. Write and solve an equation to determine the cost of each meal.

“My equation to represent this situation is:

$$4x + 14 = 50$$

Solving using a flow chart,



$$x = 9$$

Each meal costs \$9.

I will check by substituting 9 for  $x$  in my equation.”

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Observations/Documentation			