Activity 5 Assessment Solving Linear Equations Algebraically

Solving Linear Equations Algebraically			
Creates an equation involving two operations and integers I started with the equation $x = -6$. I multiplied both sides by 8.	Solves an equation of the form ax + b = c, where a , b , and c are integers, symbolically and checks solution 8x + 15 = -33 To isolate the variable, I will subtract	Solves an equation of the form $\frac{x}{a} + b = c$, where <i>a</i> , <i>b</i> , and <i>c</i> are integers and $a \neq 0$, symbolically and checks solution $\frac{x}{8} + 2 = 9$	Applies their understanding of writing and solving equations to a real-life scenario, including explaining what the solution represents Marcus is participating in the Terry Fox Run.
8x = -48 Then, I added 15 to each side. 8x + 15 = -33	15 from each side. 8x + 15 - 15 = -33 - 15 8x = -48 To determine the value of x, I will divide each side by 8. $\frac{8x}{8} = \frac{-48}{8}$ x = -6	To isolate the variable, I will subtract 2 from each side. $\frac{x}{8} + 2 - 2 = 9 - 2$ $\frac{x}{8} = 7$ To determine the value of <i>x</i> , I will multiply each side by 8. $8 \times \frac{x}{8} = 8 \times 7$ $x = 56$	Five people each sponsor them for the same amount of money. Marcus donates \$10 of their own. In all, Marcus collects \$110. How much did each person sponsor Marcus? My equation to represent this situation is: 5x + 10 = 110 5x + 10 = 100 - 10 5x = 100 $\frac{5x}{5} = \frac{100}{5}$ x = 20
Observations/Documentation			