Station 5

Using the Balance Method to Solve Equations

<https://www.youtube.com/watch?v=DO-hzLh79uw>

1. Watch the video

Write a set of rules, with an example, to solve equations using the balance scale method.

1. Solve the following using the balance scale method:

1. 3x+3=6 2. 5x+10=30 3. 10x+5=10

4. 7x+2=23 5. 2x+6=22 6. 1x+6=10

7. -2x-4=6 8. -8x-8=64 9. -4x-10=30

10. -5x-1=49 11. –x-8=1 12. -12x-5=31

13. 4x-2=-6 14. 3x-5=-6 15. 2x-7=-3

1. What are some of the short comings of the balance scale method? Would it work with decimals? How?
2. Write a word problem for equations and have a partner solve it using the balance scale method.