

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.

2. 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. $2x-7=-3$

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