

### Station 3

Grouping like terms

<https://www.youtube.com/watch?v=f15zA0PhSek>

As an extension, this is how to deal with algebraic equations with fractions coefficients in 2 places. Watch the following:

<https://www.youtube.com/watch?v=PL9UYj2awDc&feature=youtu.be>

1. Watch the videos in order

Write down 2 examples of equations with fraction coefficients: 1 example where the numerator is 1 and one where the numerator and denominator are both greater than 1.

2. Solve the following AFTER you group like terms using addition and subtraction:

a.  $3k - 4 = 28 + 8k$

b.  $7h + 6 = 14 + 8h$

c.  $4j - 7 = 5j - 3$

d.  $-4f + 3f - 2 = 7f - 1$

e.  $-w + 4 = -5w - 4$

f.  $8q - 3 + 6 = -3q + 3$

g.  $9(7h - 4) = 28 + 8h$

h.  $5(r - 3) = -3(r + 2)$

3. Write a word problem that would involve a coefficient on either side of the equation (remember to make sure it can be the same coefficient). Share it with a member of your group and see if they can solve it.