**Learning Outcome 6C:** I can solve algebra equations with fractions.

When an equation is of the form , we can make this into an easier equation
 by cross-multiplying to get…

$$\frac{3}{4}=\frac{15}{20}$$

$$4×15=3×20$$

Example 1: Solve  Example 2: Solve 

Example 3: Solve  Example 4: Solve 

When an equation involves more terms with fractions, you can do these two ways too…just leave the equations with fractions or rewrite the equation without fractions by multiplying \_\_\_\_\_\_\_\_\_\_\_\_ term in the equation by the lowest common denominator (LCD

Example 5: Solve 

Method 1: Keep the fraction Method 2: Remove the fraction
 To do so, we multiply every term by  .

Example 6: Solve 

Method 1: Keep the fraction Method 2: Remove the fraction
 To do so, we multiply every term by  .

Example 7: Solve the following any way you wish.

a)  b) 

**EXERCISES:**

Solve each of the following by cross-multiplication.

1.  2.  3. 

4.  5.  6. 

7.  8. 

Solve each of the following by multiplying each term by the lowest common denominator.

9.  10. 

11.  12. 

13.  14. 

15.  16. 