Step by Step Guide for Dimensional Analysis:

1. Set-up the "given" as a FRACTION.

2. Determine *what units you need for your answer…..*
   ⭐(You need to cancel the units you cannot use in your answer.)

3. Decide which units in the "given" you want to get rid of first.

4. Set-up a FRACTION by putting the unit you want to get rid of opposite of where it is in the given.
   ⭐*(if it's on TOP …. put it on the BOTTOM of the new fraction!)*

5. *CANCEL the UNIT!* ❌

6. Now, put the unit that you need for your answer into the fraction.
   ⭐*(the top or bottom of your fraction should be empty….put it there!)*

7. ASK YOURSELF…."What do I know about these units, how are they related?"
   (you can look at your handout with all of the conversions for this step.)

8. CHECK to see that the *only units left are the ones you need*.

9. If you have all of the units you need……..
   MULTIPLY ACROSS the TOP and MULTIPLY ACROSS the BOTTOM.
   ⭐   then
   DIVIDE the numerator by the denominator (*top ÷ bottom*).

⭐ ***Don't forget the UNITS on your ANSWER!***