## Slide 7 Nsg 131 Introduction to Unit Conversion

## Example Problem: How many quarts are in 2 gallons of milk?

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Introduction to Conversion
    Here are the 5 basic steps to change from one unit to another
    Step 1 - Identify that you need to convert
    Step 2 - Write down what you have
    Step 3-Write down your equivalent fraction
    Step 4 - Reduce units
    Step 5 - Perform the math
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Introduction to Conversion
Step 1 - Identify that you need to convert
- Look for the key words such as "equivalent" or "convert"
- Another clue is that the question asks for how many of one type of unit is in a second type of unit
- For example : How many quarts are in 2 gallons of milk?

Introduction to Conversion
Step 2 Write down what you have.
- Our example : How many quarts are in 2 gallons of milk?
- What do I start with? I have 2 gallons of milk.

Write the amount you have as a fraction with the bottom number being one.

(Writing the amount as a fraction will help us when we multiply later.)

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Introduction to Conversion
Step 5 Do the math! \(\frac{2 \text { gattons }}{1}\)
\[\)\begin{tabular}{rl}
\(\frac{2 \times 4}{1 \times 1}\) & \(=\frac{4 \text { quarts }}{1 \text { gatton }}\) \\
& \(=8 \text { quarts }\)
\end{tabular}
\]
Two gallons is equal to 8 quarts! any fractions)

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