1. A Hershey's bar weighs 7.00 oz . How many grams does the Hershey's bar weight. Note, $1 \mathrm{oz}=28.35 \mathrm{~g}$.

$$
\begin{gathered}
m=7.00 \mathrm{oz} \times \frac{28.35 \mathrm{~g}}{1 \mathrm{oz}} \\
m=198.45 \mathrm{~g} \\
m=198 \mathrm{~g}
\end{gathered}
$$

2. A cake recipe calls for 2 tablespoons of vanilla. However, you do not have a tablespoon in your kitchen! You instead have a teaspoon. How many teaspoons of vanilla must you add to the mix? Note, $1 \mathrm{~T}=3 \mathrm{t}$.

$$
\begin{gathered}
V=2 \mathrm{~T} \times \frac{3 \mathrm{t}}{1 \mathrm{~T}} \\
V=6 \mathrm{t}
\end{gathered}
$$

3. A standard bottle of wine is 750.0 mL . How many fluid ounces does the bottle hold? Note, $1 \mathrm{~L}=33.8 \mathrm{fl} \mathrm{oz}$.

$$
\begin{gathered}
V=750.0 \times 10^{-3} \mathrm{~L} \times \frac{33.8 \mathrm{floz}}{1 \mathrm{~L}} \\
V=25.35 \mathrm{fl} \mathrm{oz}
\end{gathered}
$$

4. A brownie recipe calls for 2.0 teaspoons of vegetable oil. You are cooking for a family party and scale up the recipe by a factor of 18 . Note, $1 \mathrm{~T}=3 \mathrm{t}$ and $1 \mathrm{C}=16 \mathrm{~T}$.
(a) How many teaspoons of vegetable oil are required?
(b) To more efficiently measure the vegetable oil for the scaled-up recipe, you decide to measure using cups. How many cups of vegetable oil are required for the scaled-up recipe.
(a)

$$
\begin{gathered}
N=18(2 \mathrm{t}) \\
N=36 \mathrm{t}
\end{gathered}
$$

(b)

$$
\begin{gathered}
V=36 \mathrm{t} \times \frac{1 \mathrm{~T}}{3 \mathrm{t}} \times \frac{1 \mathrm{C}}{16 \mathrm{~T}} \\
V=0.75 \mathrm{C}
\end{gathered}
$$

5. A bottle of SRJC Shone Farm olive oil is very popular and has only 6 floz remaining. A serving for a balsamic bread dip calls for 5 T of olive oil. How many complete servings can you prepare? Note, $1 \mathrm{fl} \mathrm{oz}=2 \mathrm{~T}$.

$$
\begin{gathered}
V=6 \mathrm{fl} \mathrm{oz} \times \frac{2 \mathrm{~T}}{1 \mathrm{floz}} \times \frac{1 \text { serving }}{5 \mathrm{~T}} \\
V=2.4 \text { servings } \\
V=2 \text { servings }
\end{gathered}
$$

6. A recipe calls for 525 mL of red wine. How many cups would you need to use? Note, $2 \mathrm{~T}=29.59 \mathrm{~mL}$ and $1 \mathrm{C}=$ 16 T .

$$
\begin{gathered}
V=525 \mathrm{~mL} \times \frac{2 \mathrm{~T}}{29.59 \mathrm{~mL}} \times \frac{1 \mathrm{C}}{16 \mathrm{~T}} \\
V=2.2178 \mathrm{C} \\
V=2.22 \mathrm{C}
\end{gathered}
$$

7. A recipe for bread dough yields 7.5 kg of dough. If you divide the dough into $275-\mathrm{g}$ loaves, how many loaves will you be able to make from the recipe?

$$
\begin{gathered}
N=7.5 \times 10^{3} \mathrm{~g} \times \frac{1 \text { loaf }}{275 \mathrm{~g}} \\
N=27 \text { loaves }
\end{gathered}
$$

8. 1 cup of water weighs 8.0 oz and 1 cup of chili powder weigh 3.7 oz . Is water of chili powder more dense? Use math to support your answer.

First we need to calculate the density of water!!

$$
\begin{gathered}
\rho_{\text {Water }}=\frac{8.0 \mathrm{oz}}{1 \mathrm{C}} \\
\rho_{\text {Water }}=8.0 \mathrm{oz} / \mathrm{C}
\end{gathered}
$$

Next, we need to calculate the density of chili powder!!

$$
\begin{gathered}
\rho_{\text {Chili Powder }}=\frac{3.7 \mathrm{oz}}{1 \mathrm{C}} \\
\rho_{\text {Chili Powder }}=3.7 \mathrm{oz} / \mathrm{C} \\
\hline
\end{gathered}
$$

9. You have 4 sticks of butter. How many pounds of butter do you have? Note, 1 cup of butter $=2$ stick of butter and 1 pound of butter $=2$ cups of butter.

$$
4 \text { sticks } \times \frac{1 \mathrm{C} \text { butter }}{2 \text { sticks }} \times \frac{1 \mathrm{lb}}{2 \mathrm{C} \text { butter }}=1 \mathrm{lb}
$$

10. A jar of honey is 1 C in volume. Given that 1 C of honey weighs 12 oz , how many grams does a jar of honey weigh? Note, $1 \mathrm{oz}=28.35 \mathrm{~g}$.

$$
\begin{gathered}
m=1 \text { honey jar } \times \frac{1 C \text { honey }}{1 \text { honey jar }} \times \frac{12 \mathrm{oz}}{1 C \text { honey }} \times \frac{28.35 \mathrm{~g}}{1 \mathrm{oz}} \\
m=340.2 \mathrm{~g} \\
m=340 \mathrm{~g}
\end{gathered}
$$

