

One Potato, Two Potato, Three Potato, Four?

Thanksgiving Dinner Dimensional Analysis

Name: _____ Date: _____

Preparing a Thanksgiving dinner is a lot of work for the Host. The preparation is labor intensive but usually is a labor of love. So please tell your Host how grateful you are for all the hard work they put into preparing your Thanksgiving dinner.



You could actually help your host using Dimensional Analysis. Every Host has to prepare for a unique number of guests. Using the conversions below and knowing the number of guests, you can help the Host build their grocery list so they are sure to obtain the correct quantities of foods needed for the number of guests they will be hosting.

You will practice by determining the amount of foods that would be needed to prepare a Thanksgiving meal for our class of 24 people.

CONVERSION TABLE			
1 Acorn Squash(AS) = 2 pounds	1 Sweet Potato(SP) = 1 cup Roasted SP	1 box Stuffing Mix= 6 cups prepared Stuffing	0.5 pound of white potato= 1 person
2 pounds of AS = 3.5 cups	1 cup mashed SP = 2 cup Roasted SP	1 person = ½ cup prepared stuffing	2 pounds carrots= 10 people
1 cup of AS= 2 people	4 oz mashed SP = 1 person	1 white potato = 6.5 ounces	24 ounces Turkey = 1 person
1 can cranberry sauce = 14 ounces	0.25 cup cranberry sauce = 1 person	1 pound = 16 ounces	1 cup = 8 ounces

How much of the following foods would need to be bought to feed our class of 24 people? You must fill in the correct conversion factors in the space provided for each problem. Remember, you want to start with the given amount (24 people) that needs to be converted. Be sure all your units cancel out, algebraically, except for the units your answer should be in.

Open the pdf using Kami and use the text box feature and drawing tool to fill in the amounts and cancel out your units.

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Use the boxes below, for each problem, as Fractions. See the example for Apple Pie:

Example:

24 People	1 Slice Apple Pie	1 Apple Pie
	1 person	5 slices Apple Pie



1. How many White potatoes will need to be purchased?

Final
Answer =



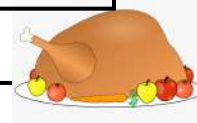
2. How many sweet potatoes will need to be purchased?

Final
Answer =



3. How big of a Turkey will need to be purchased? (How many pounds?)

Final
Answer =



4. How many pounds of carrots will need to be purchased?



Final
Answer =

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5. How many Acorn Squash will need to be purchased?

Final
Answer =



6. How many cans of Cranberry Sauce will need to be purchased?

Final
Answer =



7. How many boxes of Stuffing Mix will need to be purchased?

Final
Answer =



Now just imagine I asked you to calculate how much this meal would cost?!?

**What
?????**

