

First, Last Name _____ Core: 1 2 3 4 Date:

Activity 1 (Handout 1: Scaling Ingredients)

The recipe below shows the ingredients used to make peanut stew that is very popular in the West African nation of The Gambia. Although it is considered a relatively poor country, it has a lower per capita rate of cancer diagnosis compared to the United States. This video suggests it is attributable to a healthier diet. [Video: [Gambian Tomato Peanut Stew Medical Course - YouTube https://www.youtube.com/watch?v=x002LrzzjNw](https://www.youtube.com/watch?v=x002LrzzjNw)],

A recipe for “Domodah,” the peanut stew featured in the video provides 6 servings. As a caterer, you are hired to cook for a larger party, and to provide a consistent product the ingredients must be proportional to the number of guests in attendance.

1. Some of the ingredients for the recipe are not proportional to the number of guests. In the last column, checkmark the rows that show the correct proportion, and in the last column write the correct quantity for each ingredient that is scaled incorrectly.

	Ingredient	Party of 6	Party of 360	Correct Amount
1	2 medium yellow onions	340g	2040 g	
2	Low-sodium chicken broth	2 Cups	120 cups	
3	Medium Clove Garlic	5	3000 cups	
4	Fresh Ginger	28 g	168 g	
5	Chicken	900 g	5400 g	
6	Hot Chile Pepper	1	60	
7	Bay Leaves	2	120	
8	Creamy Peanut Butter	255 g	15300 g	
9	Plum Tomatoes	794 grams	4764 g	
10	Dried Snapper	1	25	

2. What is the constant of proportionality? How do you know? Explain
