



# Recipe Proportion Calculator - #CSandMath

## Project Goal:

Students will choose a recipe they enjoy. They will note the serving size of the recipe along with all ingredients that go into making it. Based upon how many guests need to be served, the recipe ingredient list should be adjusted.

## Standard:

**6.RP.A.1** Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.

**6.RP.A.2** Understand the concept of a unit rate  $a/b$  associated with a ratio  $a:b$  with  $b \neq 0$ , and use rate language in the context of a ratio relationship.

**6.RP.A.3** Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.

## Blocks:



## Student Handout:

[Recipe Proportion Calculator Student Guide](#)

## Teacher Guide:

[Recipe Proportion Calculator Teacher Guide](#)



@ashleyanntewes



Solution:

## Puppy Chow Recipe



Serving  
Size

10

Guests



- 9** Cup(s) of Chex
- 0.5** Cup(s) of Peanut Butter
- 1** Cups(s) of Choc. Chips
- 1** Cup(s) of Powdered Sugar
- 1** Teaspoon(s) of Vanilla
- 0.25** Cup(s) of Butter



@ashleyanntewes



```
when clicked
  set Serving Size to 10
  set Guests to 
  set Chex to 9
  set PB to 0.5
  set Choc. Chips to 1
  set Powdered Sugar to 1
  set Vanilla to 1
  set Butter to 0.25
  say Hello! Let me help you create your favorite meal for a specific number of guests. for 4 secs
  say My original recipe serves 10 people. for 2 secs
  ask How many guests will you be serving? and wait
  set Guests to answer
  set Ratio: Guest to Serving Size to Guests / Serving Size
  say Your recipe will call for... for 3 secs
```

```
set Chex to Chex * Ratio: Guest to Serving Size
set PB to PB * Ratio: Guest to Serving Size
set Choc. Chips to Choc. Chips * Ratio: Guest to Serving Size
set Powdered Sugar to Powdered Sugar * Ratio: Guest to Serving Size
set Vanilla to Vanilla * Ratio: Guest to Serving Size
set Butter to Butter * Ratio: Guest to Serving Size
```

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