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Mr Panadero loves baking, and he is really good at it... His secret is to always use the main ingredients in the correct ratio.

These are his directions to create the perfect batter.

- **Pound Cake** = 1 part butter : 1 part sugar : 1 part egg : 1 part flour
- **Angel Food Cake** = 3 parts egg white : 3 parts sugar : 1 part flour
- **Muffin** = 2 parts flour : 2 parts liquid : 1 part egg : 1 part butter
- **Fritter** = 2 parts flour : 2 parts liquid : 1 part egg
- **Pancake** = 2 parts flour : 2 parts liquid : 1 part egg : 1/2 part butter
- **Popover** = 2 parts liquid : 1 part egg : 1 part flour
- **Crepe** = 1 part liquid : 1 part egg : 1/2 part flour.

**Pie charts**

Draw a pie chart for each batter, following the example of the popover on the right.
Recall Mr Panadero’s directions to create the perfect batter.

- Pound Cake = 1 part butter : 1 part sugar : 1 part egg : 1 part flour
- Angel Food Cake = 3 parts egg white : 3 parts sugar : 1 part flour
- Muffin = 2 parts flour : 2 parts liquid : 1 part egg : 1 part butter
- Fritter = 2 parts flour : 2 parts liquid : 1 part egg
- Pancake = 2 parts flour : 2 parts liquid : 1 part egg : 1/2 part butter
- Popover = 2 parts liquid : 1 part egg : 1 part flour
- Crepe = 1 part liquid : 1 part egg : 1/2 part flour.

Pancakes, muffins and angel cake

Complete these recipes.

Pancake

- 100 gr of flour
- ___ gr of liquid
- ___ gr of eggs
- ___ gr of butter

Muffin

- 100 gr of flour
- ___ gr of liquid
- ___ gr of eggs
- ___ gr of butter

Angel cake

- ___ gr of flour
- ___ gr of sugar
- ___ gr of egg whites
- ________________________

= 350 grams of Angel Cake

The most flour

Which of these batters requires the most flour: crepe, muffin, pancake or fritter?

(Compute what fraction of the entire batter is made of flour, and compare.)

Write your process and answers in your notebook.
2 Bake Sales

Miss Panadera goes to the Sweet Shop to buy ingredients for her cakes... She finds the following manager specials:

- 4 bars of butter + a dozen eggs = $7
- 1 bag of flour + a dozen eggs = $7

Shopping at the Sweet Shop

If she can buy each item individually at the manager special discount price, what would costs more, 2 bag of flour or 4 bars of butter?

b) If a bar of butter is $.75, how much does a bag of flour costs? What about a dozen of eggs?

Running a bake sale

Suppose 10 bags of flour, 6 dozen eggs and 8 bars of butter allow you to make 25 cakes. If Miss Panadera wants to make a profit of $4 on each cake she sells, what is the price she should set for each cake she sells? Suppose you buy all your ingredients at the Sweet Shop at the manager special's prices.

Write your process and answers in your notebook.

Continues...
Shopping at Superbakery (the competitor store)

Superbakery offers the following combination special:

- 1 dozens eggs + 2 bags of flour = $8
- 3 dozens eggs + 1 bag of flour = $11.50

Again, suppose you can buy each individual item at the special prices:

How much does a bag of flour costs?

If you want to save money and need to buy eggs, would you go to Albertson or Target?

Write your process and answers in your notebook.
3 Hot chocolate

Labels for chili peppers

You decide to make “hot” chocolate for your friends, and go to the store to buy chili peppers.

There are 3 crates in front of you.
- Crate 1 contains only habanero peppers.
- Crate 2 contains only jalapeño peppers.
- Crate 3 contains both jalapeño and habanero peppers.

Each crate is labeled. The three labels read "Habanero peppers", "Jalapeño peppers", and "Habanero and Jalapeño peppers".

Unfortunately, the labeling machine has gone crazy and all the crates are labeled incorrectly.

If you can only take out (and look at) just one pepper from just one of the crates, how can you label ALL of the crates correctly?

Recipes for “hot” chocolate

It’s time to start preparing the hot chocolate. There are only three ingredients: 4 cups of milk, 1 chili pepper and a teaspoon of 1 spice. However, some important choices must be made:
- You can use 2% milk or skim milk
- You can use a Habanero or a Jalapeño pepper.
- You can use nutmeg, cinnamon or Cayenne pepper.

How many different recipes for “hot” chocolate can you make with these ingredients?

Write your process and answers in your notebook.