Storyline

om/Presentation/tiffanyallemand-108623-fractions3-Entertainment-



It's your first day on the job at the inn in town, and your job is to be a server at the king's meals. This means that you'll have to divide up the food between the king and his guests at each meal. Sometimes the king likes to eat with just his family, but sometimes it's the entire court.

Beginning of the game: into to fractions

For practice, the friendly head chef shows you how to divide up a meal between you and him into halves

Half of the pasta, half of the green beans...

Then you start to serve the king

Dividing sets of objects as well as whole objects

Divide up the meals oth at each person gets 2 pancakes and 1 apple

Divide it up so that everyone gets cone scoop of whipped cream on top

Three strawberries for every one apple? (faitos?)

Divide up one whole sheet of coffee cake into appropriate sized pieces

Then at the next meal, the king has a different number of people but wants just the same portions that had last week.

Divide it up using equivalent fractions.

Or, wants smaller pieces but same amount

At the meal, some people want more, some less – give them right fractions

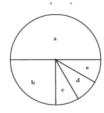
First, you are just a go between, giving the ingredients prepared by the prep chefs to the cooks.

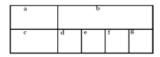
This means that you have to line them up on the counter/number line in order. If they are out of order, the recipe goes bad and the cooks get mad at you, have to go back to the prep

Next promotion: you are the prep chef

Additional possibility:

When doing recipes, integrate fractions into how far — progress
Have chef keep asking, how much longer — if whole recipe takes 60 minutes, there are 6 steps, and
you have completed 1 — > 1/6 of the way through, about 50 more minutes





1. Margo and Jose shared a couple of large pizzas. Margo ate 1/2 of a pizza. Who at a more? Evolute hour year

- 1 small green bell pepper, finely chopped 1 small red bell pepper, finely chopped 2 tablespons of 6 eggs, basten 1 tablespon flour 2/3 cup mik 1/2 cup cheddar chesse, shvedded salt one pepper to taste

In the game, the player will explore real world applications of concepts involving fractions, percents, and decimals as they try to un a successful small bakery. The concepts will be incorporated into pricing, adjusting recipes, and serving portions.

Cook bell peppers in 1 tablespoon oil in a large skiller until tender. Bea eggs and add to skiller. Cook on medium haut until edges start to each, then lift mixture in the center with a spatula to let the uncooked egg mixture cook. Lift and feld until seg mixture is cocked (just like making scrambled eggs). Pour into a 9X13 casserole dish.

In a small saucepan, add the rest of the oil, milk, and cheese and som salt and pepper to taste. Once thick and bubbly, pour into the casser dish on top of the eggs. Sprinkle bread crumbs on top. Bake in a 350F degree oven for 10 to 15 minutes.

Recipes

Intro to fractions

- 1. Components -- numerator, denominator, bigger denominator -->
 - mallerpieces

 When the numerator stays the same, and the denominator increases, the value of the fraction decreases.

 When the denominator stays the same, and the numerator increases, the value of the fraction increases a. Be able to order fractions from greatest to least

Peated from http://cst.syr.cdu/licee/fracuni/intrfac/intrfac.htm
rallent fractions
Simplifying fractions using factors, prime factorization
All prime factors that multiply to make denom, find common ones.

ones
4/6 = 0.6667 2/3
paring fractions
When denominators are the same, it's simple
Otherwise, find least common denominator then compare

numerators

4. Operations in fractions
Adding and subtracting with common denominators

4.7.40

Multiplying and dividing fractions
Multiplying: mult. Numerators, denominators, simplify
Show why it works
Dividing:
Reciprocal of second fraction

Bargain Bakery?

Working at a bakery. You start in the morning at half past 9. If there are 60 minutes in an hour, when is this? 9:30

You get to the bakery. Your recipe for cookies says to set the oven at 1/3 of it's full heat. If the recipe says to cook your recipe at 300 degrees, what temperature should you set the oven to? 300*1/3 = 100

You bake 36 cookies in batches of 12. How many cookies to you cook in each batch? 12/36 = 0.3333 1/3

You baked 24 cookies but 3 fell off the tray when you were taking the tray out of the oven. What fraction of the cookies did you lose? 3/24 --> 1/8

You charge \$2 for each of your cookies. The bakery next door charges \$3, but they are having a half price sale. How much do their cookies cost now? 3 * 1/2 = 1.5

Now each cookie is 1.5

Oh no! People have started going to the bakery next door because they have a lower price! What percent do you need to reduce your price to match your competitor?
Your cookie costs \$2.00 and theirs costs 1.50 Your cookie costs \$2.00 and theirs costs 1.50
The difference is: 50,1/20 at oldlar, 50 cents.
What is 0.50/2.00=0.25 .25%
If you had 4 groups out of 50 cents, then you would have 2 dollars. Taking away one of those four groups would leave you with 3 groups of 50 cents-1.50, matching the competitors price.

Yay! Now that you lowered your prices, more customers have started coming to your bakery. Twice as many in fact (you make such good cookies!). This means that you need to double your recipe.

If your recipe calls for:

Apple Crisp - ram

Contributed By: repeltation Beth Crocker Cookbook

Classic simple tasty apple crisp

Ingredients

4 Medium tart cooking apples (Greening, Rome, Granny Smith), sliced (4 cups)

3/4 cup Pactied brown sugar 1/2 cup Ali-purpose flour 1/2 cup Guick-cooking or old-tashioned oat 1/3 cup Butter or stick margarine, softened

3/4 tsp Ground nutmeg Cream or ice cream, if de

- 1. HEAT oven to 375". GREASE bottom and sides of square pan, 8 x 8 x 2 inches, with shortening
- 2. SPREAD apples in pair. MIX remaining ingreadients except cream; SPRINKLE over apples.
- BAKE about 30 minutes or until topping is golden brown and applies are tender when pierced with fork. SERVE warm with cream.

MAD-141		Dry Ingre
	1 tablespoon	3 teaspoon
Imagine that you shared your bag of mini doughnuts with your	1/8 cup	2 tablespoo
	1/4 cup	4 tablespoo
	1/3 cup	5-1/3 tables
sister. You ate $\frac{3}{3}$ of the bag while your sister ate $\frac{4}{10}$ of the bag. Who	1/2 cup	8 tablespoo
tle more? Explain how you know.	2/3 cup	10-2/3 table
	3/4 cup	12 tablespo
	1 cup	16 tablespo
	Wet Ing	

 Marty ate some candy. He ate 1-half of a whole Hernhey but before lunch. He ate 1-fourth of a whole Hernhey but after lunch. About how much of one candy but did he ead? With your faction cardes, find out the exact amount of a Hernhey but that Marty ate. Draw pictures to show what you did with the curie. Estimate limiter.

Terri ate 1-half of a small pizza and 5-twelfths of another small pizza. About how suich of a whole pizza did she eat? With your fraction circle, find out the exact amount. Draw pictures to show what you did with the circles. Estimate first!!!

Estimate:		

	Dry Ingredient Equivalents	
1 tablespoon	3 teaspoons	15 m
1/8 cup	2 tablespoons	30 m
1/4 cup	4 tablespoons	50 m
1/3 cup	5-1/3 tablespoons	75 m
1/2 cup	8 tablespoons	125 m
2/3 cup	10-2/3 tablespoons	150 m
3/4 cup	12 tablespoons	175 m
1 cup	16 tablespoons	250 m
	Wet Ingredient Equivalents	
1 cup	8 fluid ounces	1/2 pin
2 cups	16 fluid ounces	1 pin
4 cups	32 fluid ounces	2 pint
8 cups	64 fluid ounces	4 pint

Fill in the gaps				
		1 2	50%	0.5
Maybe like th	is, but include grea	ter than ones		
	\oplus			