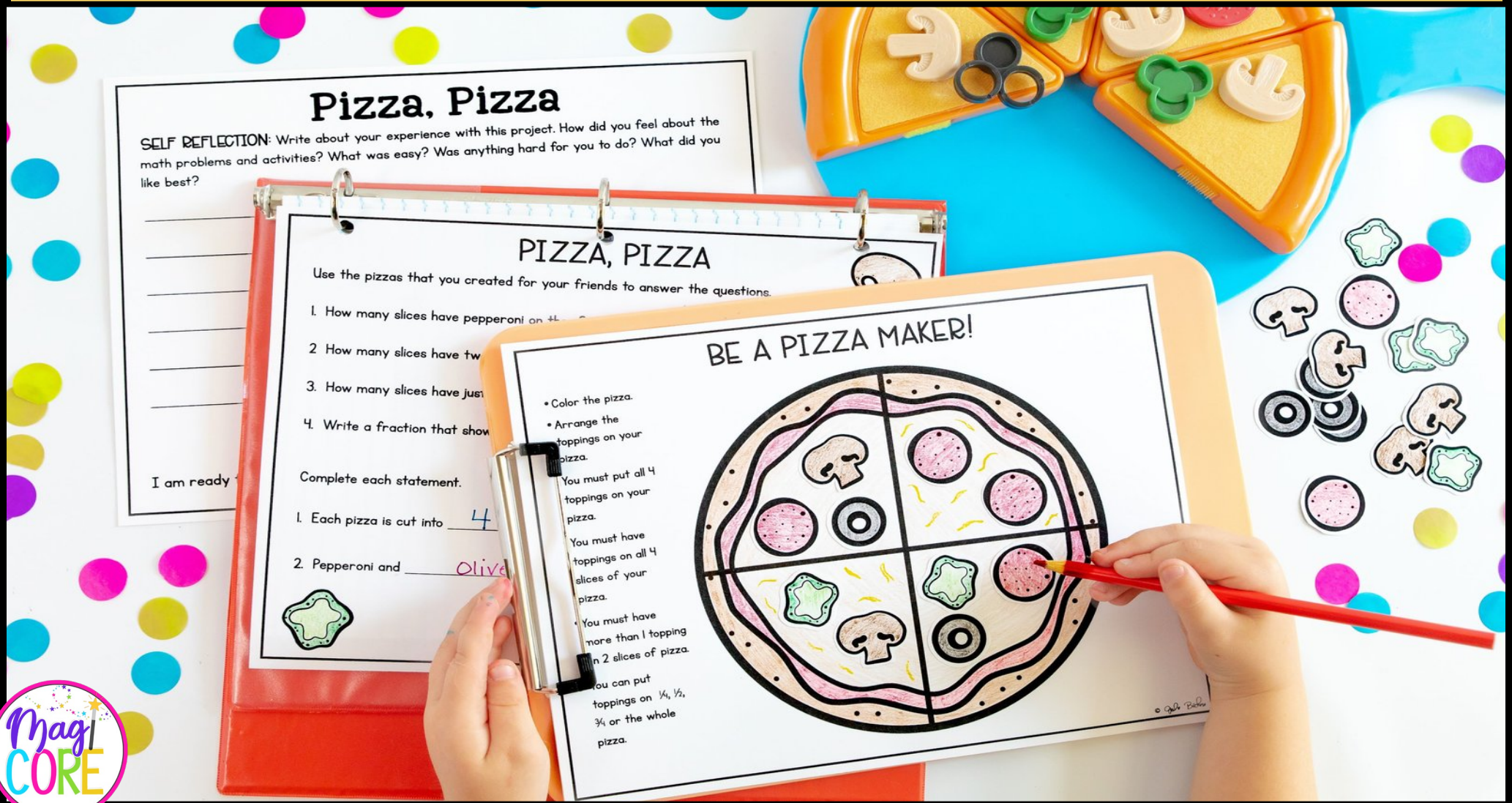
PIZZA FRACTIONS

Project Based Learning

2nd Grade Print & Google Slides



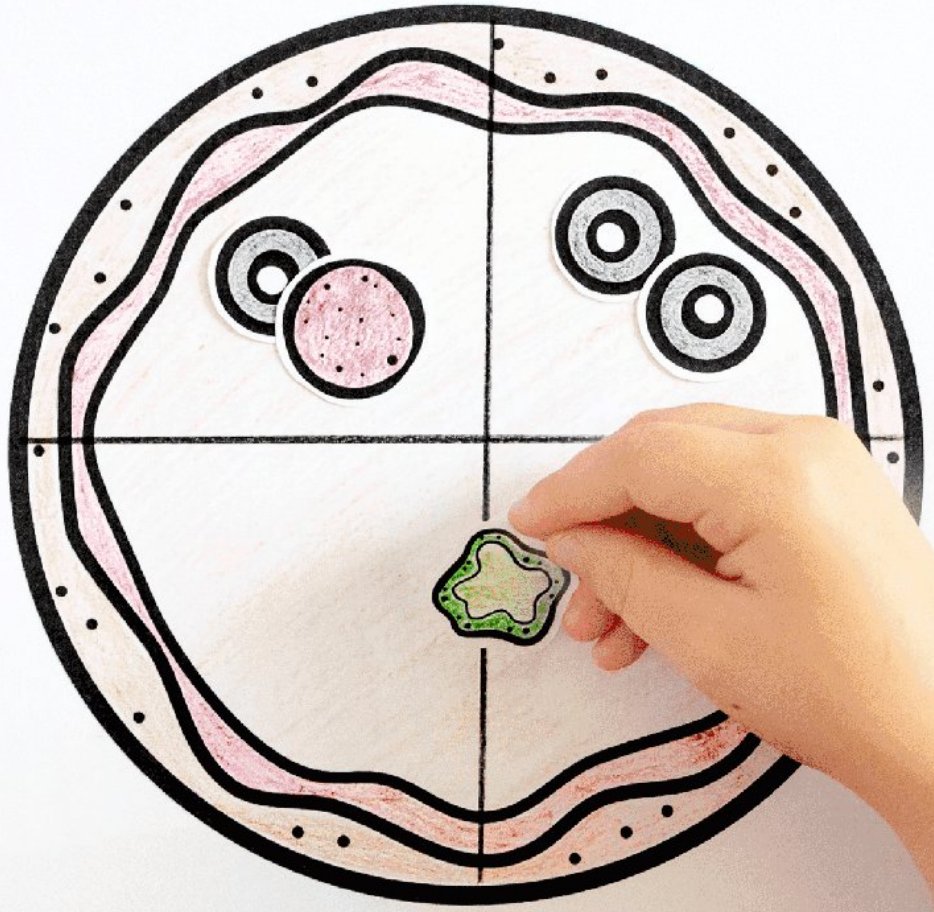
Pizza, Pizza

reflection of your experience with this project. How did you feel about the math
nd easy to do and any difficulties you had while working on this pr

SELF REFLECTION: Writ
problems and activities?
Did you enjoy this activ

BE A PIZZA MAKER!

- Color the pizza.
- Use a ruler to partition your pizza into four equal shares.
- Arrange the toppings on your pizza.
- You must add at least 3 of the 4 toppings to your pizza.
- You must have toppings on every slice of your pizza. You can have more than one topping on slices.
- You can put toppings on ¼, ½, ¾ or the whole pizza. Only two of your toppings can be the same amount.

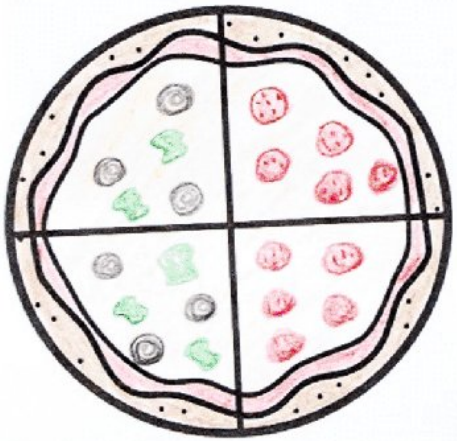


BE A PIZZA MAKER!

PIZZA, PIZZA

Ali wants green peppers and olives.

Greyson wants just pepperoni.



PIZZA 1

Kelly wants mushrooms and green peppers.

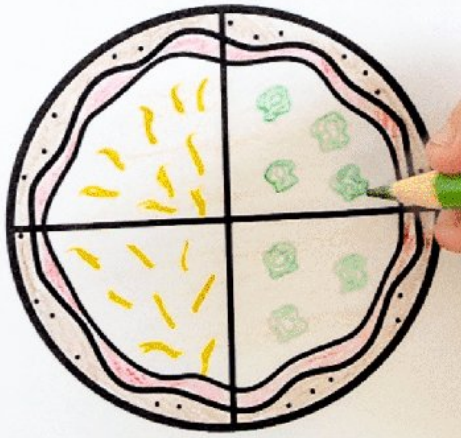
Dad wants mushrooms and olives.



PIZZA 2

James wants just cheese.

Mom wants just green peppers.



PIZZA 3


PIZZA, PIZZA
You are working at PIZZA, PIZZA, the best pizza shop in town. Your job is to help Meg, the ne
cut the pizzas before they are served. Rate how well Meg cut the pizzas by dragging the cor
signal into the box.
Meg cut PIZZA 1 into halves.
Meg cut PIZZA 2 into quarters.
Meg cut PIZZA 3
Help Meg learn about fractions by showing her how to cut the pizzas below. Use the line tool to s
in the pizza.
Cut the pizza into 4 equal parts.
Cut the pizza into 3 equal parts.
Cut the pizza into 2 equa
1/6
1/5
1/8
1/4

Table of Contents

1. Directions for the Teacher
2. Welcome to Pizza Pizza
3. Cutting Pizzas
4. Pizza Cook Time
5. Pizza Toppings
6. Be a Pizza Maker!
7. Make the Cut
8. Challenge 1
9. Challenge 2
10. Self-Reflection
11. Rubric
12. Answer Key



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For the Teacher



Pizza, Pizza is a project-based learning activity that involves using the Geometry CCSS Math Standards to solve problems related to making and sharing pizza. It can be used with students in grades 1 and 2.

Directions:

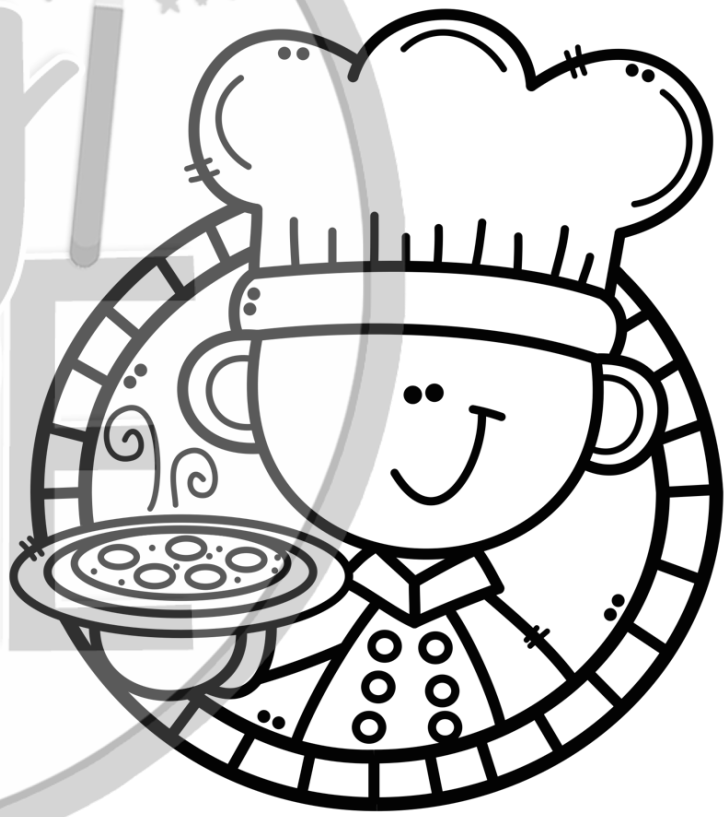
1. Decide if your class will complete the project as a whole group, in small groups or independently.
2. Students should complete the project over several days.
3. Preview the activity with your students.
4. Students will work with equal parts, beginning fractions and partitioning of shapes.
5. Challenge activities can be assigned or can be optional.
6. Students will complete the self-evaluation reflection and evaluation rubric.
7. Allow students an opportunity to share their completed projects.

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Pizza, Pizza

Welcome to your spicy PIZZA adventure. In this packet you will find lots of activities that require you to use your best math thinking with fractions and more. You will have the opportunity to be creative while having lots of fun.

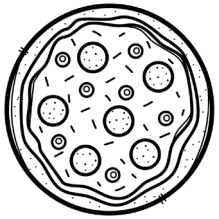
- Read each page carefully.
- Follow the directions for each page.
- Use strategies that will help explain your thinking.
- Take your time and do your best work.
- Give the challenge pages a try.
- Complete the self-reflection and evaluation rubric.
- Have fun!



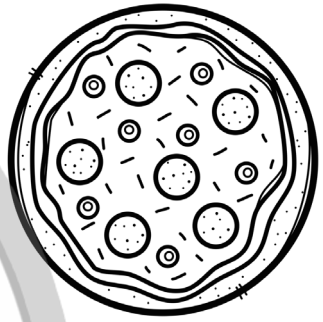
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PIZZA, PIZZA

You must keep track of the cooking times when pizzas go in the oven. There are two ovens that hold up to five pizzas each. Use the cooking times below to answer the questions.







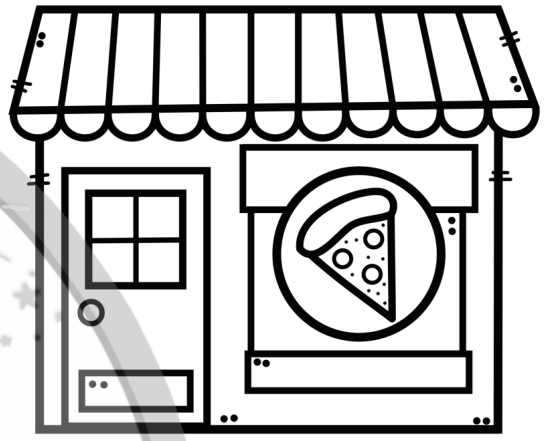
SMALL PIZZAS: 20 minutes **MEDIUM PIZZAS: 25 minutes** **LARGE PIZZAS: 30 minutes**

1. A family of 4 people orders one small and one large pizza for dinner. You know that the pizzas must come out of the oven at the same time so that they will be hot when they are served. How long will the large pizza be in the oven when you put the small pizza in to cook? Explain how you know.

2. Twelve students from your school come in to celebrate a birthday. The group orders 2 large pizzas, 3 medium pizzas and 2 small pizzas. Describe a plan for how you will cook the pizzas so they will all come out of the ovens at the same time. You can use both ovens.

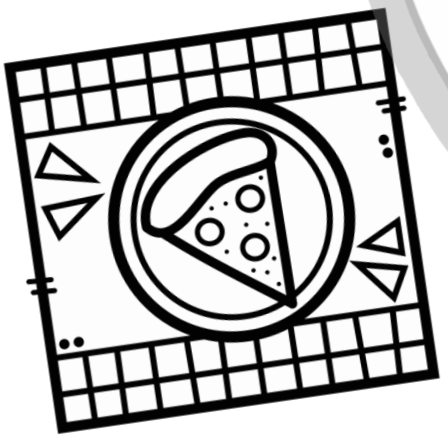
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PIZZA, PIZZA



On Saturday afternoon, the pizza shop was very busy. Mr. Caesar asked you to take an order from the Barone family. The family wants three large pizzas cut into quarters but cannot agree on toppings. Everyone likes something different.

You must decide what to put on each pizza so that everyone will get their favorite toppings. Read what each person wants. Draw the correct toppings on the pizzas. Write the person's initial on the slices they will eat.



Everyone will get 2 slices of pizza. All pizzas come with sauce and cheese.

© Julie Bochoso

PIZZA, PIZZA

Use the pizzas that you created for the Barone family to answer the following questions.

1. How many pizzas have mushrooms on at least one of the slices?

2 How many slices have two toppings on them?

3. How many slices have just cheese on them?

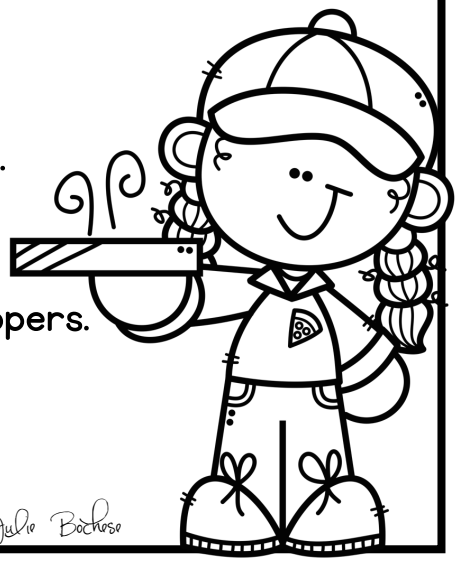
4. Write a fraction that shows how many slices have just cheese on them.

Complete each statement.

1. There are _____ out of _____ slices with pepperoni.

2. There are _____ out of _____ slices with green peppers.

3. Olives and _____ are on the same number of slices.

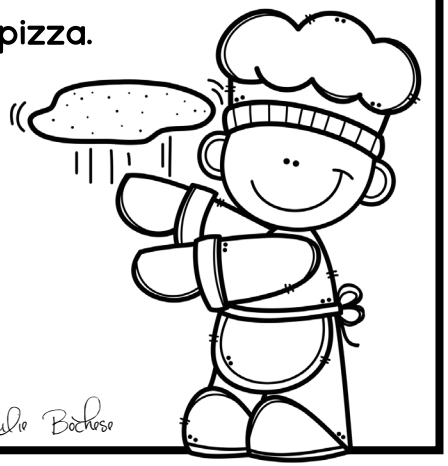


© Julie Bathose

BE A PIZZA MAKER!

You will be creating the perfect pizza to share with your best friend.
Follow the directions below to help you make the best pizza ever!

- Partition your pizza into four slices. You can do this by folding and using a ruler.
- Color your pizza yellow.
- Color the toppings.
- Look at the toppings. You must add at least 3 of the 4 toppings to your pizza.
- You must have toppings on every slice of your pizza. You can have more than one topping on slices.
- Cut out the toppings and arrange them on your pizza. You can put toppings on ¼, ½, ¾ or the whole pizza. Only two of your toppings can be the same amount.
- Once you have the toppings arranged the way you want them, glue them on your pizza.
- When your pizza is finished, complete the table to show the fractions for each topping.



© Julie Bocheso

BE A PIZZA MAKER!

Complete the table and answer the questions below.

TOPPING	Is on _____ out of 4 pieces	Write as a fraction
Green Pepper		
Pepperoni		
Black Olive		
Mushroom		

1. How many slices have pepperoni?

2. How many slices have 2 toppings?

3. Write the fraction that shows the number of slices with 2 or more toppings.

4. How many of your slices have 3 or more toppings?

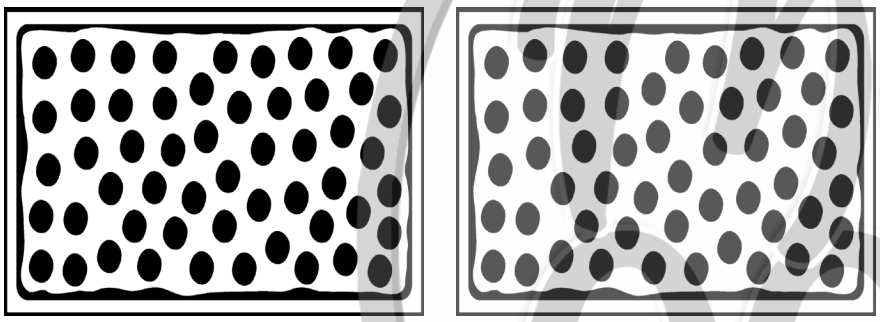
5. Write the fraction that shows the number of slices with 3 or more toppings.

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MAKE THE CUT!

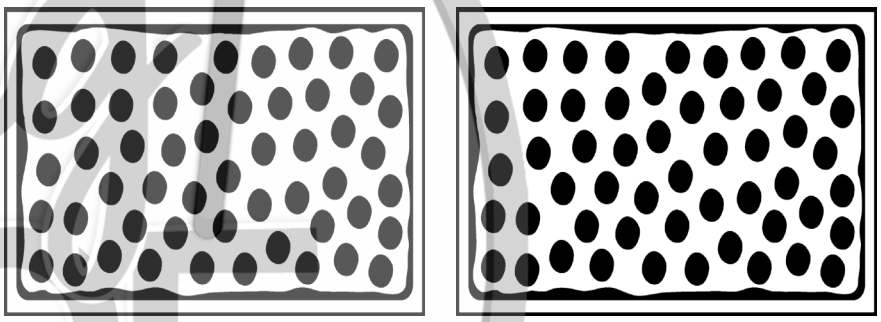
Andrew, Mike and Kristen come into PIZZA, PIZZA with their parents and grandma to celebrate winning the soccer tournament. They order 4 pizzas and soda. Dad asks for the pizzas to be cut into large pieces for the adults and small pieces for the children. You decide to cut the adults' pizza into thirds and the children's pizza into fourths.

1. Cut into thirds for the adults.



How many 1/3 slices of pizzas did you get?

2. Cut into quarters for the children.



How many 1/4 slices of pizzas did you get?

3. How many slices of pizza can each adult eat? Show with an equation.

4. Kristen eats 2 slices of pizza. Andrew and Mike share the rest. They eat the same number of slices. How many slices did they each eat?

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CHALLENGE 1

(OPTION 1)

Your class took a poll on their favorite pizza toppings. Now you and your classmates must create a bar graph using the data collected. Decide on a way to mark the squares to complete the bar graph.

PEPPERONI 𝍸 ||| MEATBALLS 𝍸 𝍸 ONIONS |||

BACON 𝍸 || OLIVES 𝍸 ||| TOMATOES 𝍸 MUSHROOMS ||

TOPPINGS	1	2	3	4	5	6	7	8	9	10
pepperoni										
meatballs										
bacon										
onions										
olives										
tomatoes										
mushrooms										

© Julia Bachosa

CHALLENGE 2

Mr. Caesar is pricing the weekly specials and needs your help. He wants to make a profit while offering fair special prices. It costs Mr. Caesar $10.00 to make a large pizza with mozzarella before adding additional toppings. Use the menu and topping price chart to help him determine if he will make a profit.

TOPPING PRICE CHART	
Bacon * $1.00	Garlic * 50 cents
Pepperoni * $2.00	Pepper * 50 cents
Tomato * $1.50	Olive * $1.00
Meatballs * $3.50	

TODAY'S SPECIALS

Nana's Favorite * Mozzarella, Bacon and Garlic * $14.50
Meat Lover's * Mozzarella, Meatball, Bacon and Pepperoni * $16.50
Lulu's Veggie * Mozzarella, Pepper, Olive and Tomato * $15.00
The Bomb * Mozzarella, Meatball, Bacon, Pepperoni, Tomato, and Garlic * $19..00

1. Determine the cost of each pizza. Write an equation that shows how you solved each problem.

- **Nana's Favorite** _____
- **Meat Lover's** _____
- **Lulu's Veggie** _____
- **The Bomb** _____

2. If Mr. Caesar sells 5 of the Nana's Favorite pizza, how much money will he earn as profit? Draw a model to show how you solved the problem.

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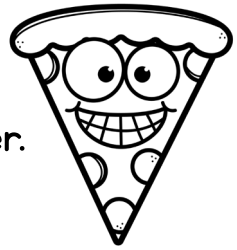
Pizza, Pizza

SELF REFLECTION: Write a reflection of your experience with this project. How did you feel about the math problems and activities? Explain what you found easy to do and any difficulties you had while working on this project. Did you enjoy this activity? Why or why not?

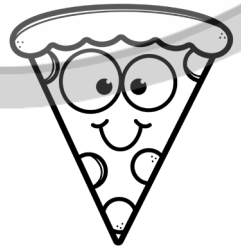
RATE THIS PROJECT

Color the pizza of the statement you most agree with.

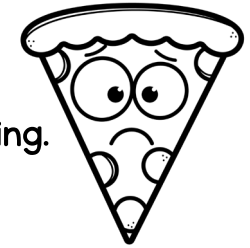
I am ready for something harder.



It was just right.



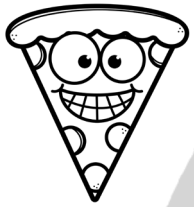
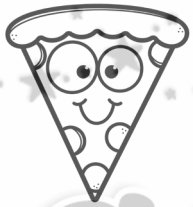
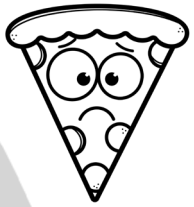
I found this very challenging.



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Pizza, Pizza

SELF REFLECTION RUBRIC: Shade the one box of the rubric for each row that expresses how you would rate yourself on this math project.

		
I felt very confident about the math in this project.	I felt good about most of the math in this project.	A lot of the math in this project was too hard for me to do alone.
I understood the math problems and did not need help to complete the problems.	I understood most of the math problems but needed a little help to solve some of the problems.	I understood some of the math problems but needed help to solve most of the problems.
I used many strategies to solve the math problems efficiently.	I needed a little help using the best strategies for solving some of the math problems.	I had trouble knowing what strategies to use to solve many of the math problems.
I am sure that I am ready for a harder math project.	I want more time practicing similar math problems.	I feel I need assistance to complete similar math problems.

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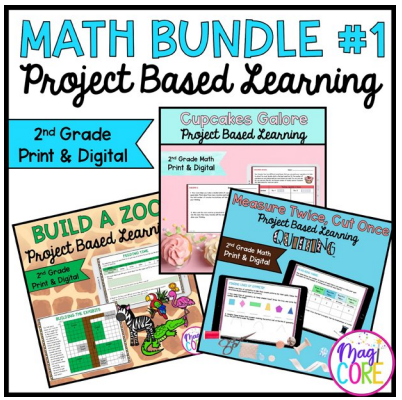
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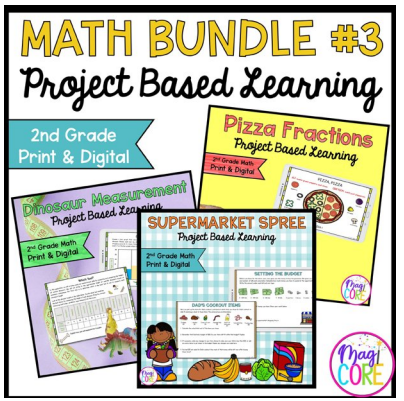
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