SUPERMARKET SPREE
Project Based Learning

3rd Grade Print & Google Slides

MOM'S GROCERY LIST

Different people in your family have given you lists of things they need from the store. Below is the list of items Mom wants. Estimate what you think the cost of each item may be to the nearest dollar. Then, find the total estimate.

Item	My Estimate
1 gallon of milk	$ 4
1 loaf of bread	$ 2
1 fish	
1 jar of	
2 pounds	

BUDGET CHECK #1

It's important that you keep track of the budget to make sure you have enough money to buy all the items. In the table below, fill in your estimate for Mom's groceries from the previous page. Calculate how much money you estimate you will have left after getting Mom's items.

Person's Groceries	Estimated Cost	Estimated Total Cost
Mom		
Gran		

BUDGET CHECK #1

It's important that you keep track of the budget to make sure you have enough money to buy all the items. In the table below, fill in your estimate for...

BUDGET CHECK #4

Answer the following questions based on the table on the previous page.

1. Based on your estim[...]
   Explain.

2. Compare the estim[...]
   cost from the budg[...]

Mom's
estimated cost

Grandma's
estimated cost

3. Which person's shop[...]
   expensive?

SUPERMARKET SPREE

Your parents have given you the responsibility of going to the supermarket and purchasing all the food and necessary items your family will need for the week. It is your job to budget for all the items, compare costs of similar items, analyze sales prices, and make other decisions about your family's grocery purchase.

Here are your tasks:

- Read through the entire packet before beginning.
- Count money to determine your shopping budget.
- Estimate the cost of the items your family members want you to purchase.
- Help your sister calculate how much money she has in her piggy bank.
- Determine the price of items at the supermarket by solving problems and calculating coupons and sales.
- Solve one- and two-step word problems about item prices.
- Keep track of how much money you are spending to ensure you don't go over budget.
- Complete the challenge pages. (Optional)
- Complete the self-reflection and evaluation rubric.

BUDGET CHECK #1

It's important that you keep track of the budget. This is how you make sure you have enough money to buy all the items. In the table below, fill in your estimate for Mom's groceries from the previous page. Calculate how much money you estimate to have spent so far.

Person's Groceries	Estimated Cost	Estimated Total Cost
Mom		
Grandma		
Dad		
Julia		
	Estimat	

FOR THE TEACHER

SUPERMARKET SPREE is a project-based learning task that involves using third grade math standards to plan a budget and plan and carry out a grocery shopping trip. It was created for students in third grade. The following standards are addressed:

- 3.OA.A.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities.
- 3.OA.C.7 Fluently multiply and divide within 100.
- 3.OA.D.8 Solve two-step word problems using the four operations.
- 3.NBT.A.2 Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.
- 3.MD.A.1 Tell and write time to the nearest minute and measure time intervals in minutes.

DIRECTIONS:

1. Assign students to work alone or in small groups.
2. Preview the activity with your students.
3. Allow students class time to complete the activity. This can span several days.
4. Allow students an opportunity to complete extra challenge activities (Optional).
5. Allow students to complete the self-reflection and evaluation rubric.
6. Allow students an opportunity to share their completed projects.

Covers a range of 3rd-grade math standards including multiplication and division.

BUDGET CHECK #4

Answer the following questions based on the table on the previous page.

1. Based on your estim... Explain.

2. Compare the estim... cost from the budg...

○ _____
Mom's estimated cost

G___
est...

○ _____
Grandma's estimated cost

est...

3. Which person's shop... expensive?

JULIA'S PIGGY BANK

Your sister, Julia, has been doing odd jobs for the neighbors after school, and she has been saving up the money she has earned in her piggy bank. Answer the questions below.

1. Julia has walked your neighbor's dog every day for the past 3 days. Each day, she is paid $5. Write and solve a multiplication equation to see how much Julia has earned dog walking.

   $15

2. Julia earned $18 by weeding Mrs. Morrison's garden. She put an equal amount towards buying a candy bar, buying a new notebook, and saving in her piggy bank. How much money does Julie have saved from weeding?

   $6

3. Your parents give Julia a quarter each day she makes her bed. She has made her bed 8 times in the last two weeks. How much money does Julia have from making her bed?

   $2

4. How much money does Julia have in total?

   $23

5. Julia gives you a shopping list that she estimates will cost $18. How much money will she have left over after?
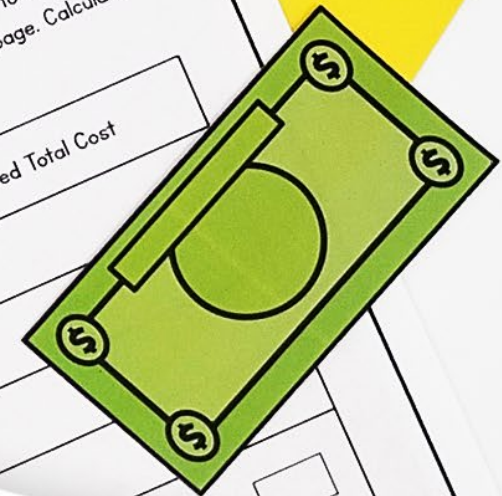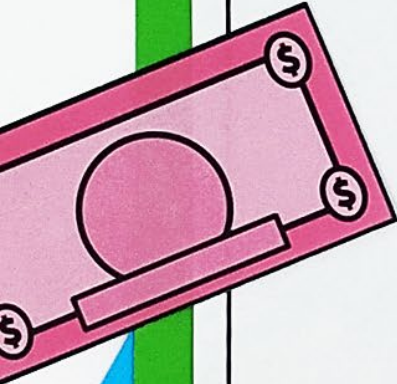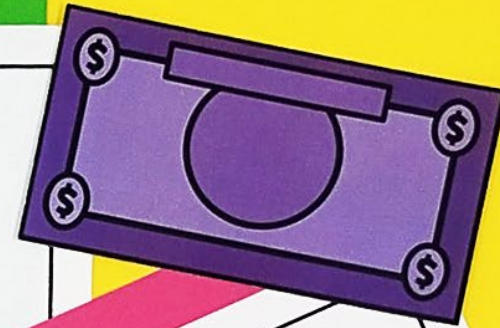
   $5

Meaningful and realistic word problems.

MOM'S GROCERY LIST

Different people in your family have given you lists of things they need from the store. Below is the list of items Mom wants. Estimate what you think the cost of each item may be to the nearest dollar. Then, find the total estimate.

Item	My Estimate
1 gallon of milk	$ 4
1 loaf of bread	$ 2
1 fish	
1 jar of	
2 pounds	

BUDGET CHECK #1

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Person's Groceries	Estimated Cost	Estimated Total Cost
Mom		
Gran		

= Money Remaining

BUDGET CHECK #1

It's important that you keep track of the budget to make sure you have enough money to buy all the items. In the table below, fill in your estimate for Mom's groceries from the previous slide. Calculate how much money you estimate you will have left after getting Mom's items.

Person's Groceries	Estimated Cost	Estimated Total Cost
Mom		
Grandma		
Dad		

Plan groceries by practicing multiplying within 100.
25 Pages of Themed Skills Math Practice

REFRIGERATED GOODS

You take a turn down the refrigerated aisle. First, you stop at the seafood counter to buy a fish for your mom. There are different types of fish with different prices, as shown below.

2 pound Trout
$8 per pound
$16

3 pound Red Snapper
$7 per pound
$21

1 pound Salmon
$14.50 per pound
$14.50

1. Using the price per pound and the weight of each fish, determine the total price of each and write the prices in the spaces.

the least expensive fish when looking at

_Your mom told you not to buy the most e_____
price. Which fish do you buy?

Trout

Next, you stop at the dairy refrigera___
gallon. Determine the prices of the

Type of Milk		Skim
Price per Gallon (coins)	6 quarters,	
Price per Gallon (dollars)	7 nickels, q	

AT THE CHECKOUT

You are almost finished! All of the items your sister, Julia, wanted can be found near the r___ checkout. So, you head there. Answer the questions about Julia's shopping list.

1. Julia asked for two magazines: *Kids News Weekly* and *Arts & Crafts Digest*. The price of *Kids New___ Weekly* is two $1 bills, two quarters, one dime, two nickels, and 7 pennies. *Arts & Crafts Digest* costs three $1 bills, one dime, two nickels, and 3 pennies. How much do the magazines cost in total?

   $6

2. Julia estimated that the magazines would cost $10. How close was her estimate?

   $4 off

3. Julia asked for some candy but ___ ___ ___ kind. A chocolate bar costs $1.30. A super-__ ___ a pack of gum costs one dime less than __ __ ___ pack of gum?

   ___ previous question. How much does the

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?

_____

_____

_____

_____

_____

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_____

RATE THIS PROJECT
Circle the statement you most agree with.

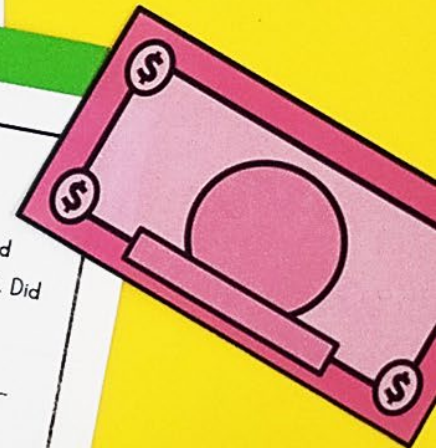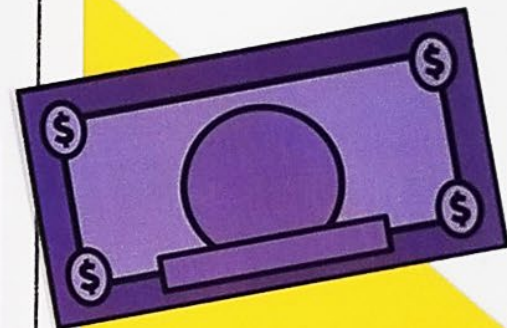I am ready for something harder.   This was just right.   I found this very challenging.
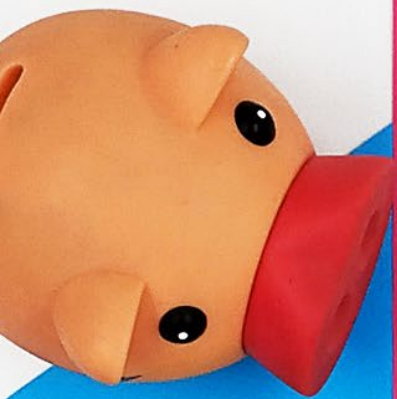
SELF-EVALUATION

Circle or shade one box per row on the rubric that expresses how you rate yourself on this Project Based Learning Activity.

➕	✔	➖
	...tty good about my	I felt a lot of the math in this project was too hard ...ne to do alone.

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

Circle the statement you most agree with.

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This was just right.

I found this very e...

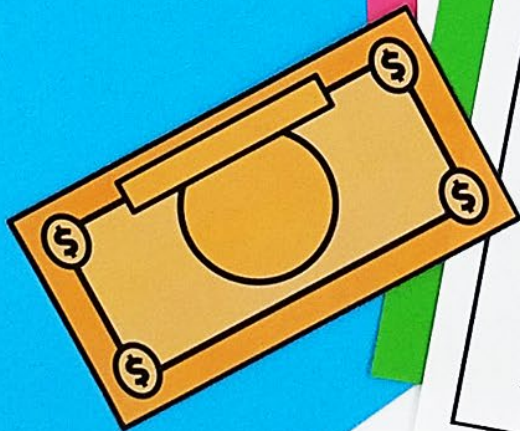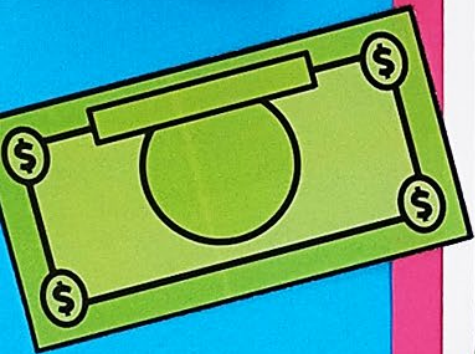Rubric and Reflection Self-Evaluation.

TABLE OF CONTENTS

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FOR THE TEACHER

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SUPERMARKET SPREE

Your parents have given you the responsibility of going to the supermarket and purchasing all the food and necessary items your family will need for the week. It is your job to budget for all the items, compare costs of similar items, analyze sales prices, and make other decisions about your family's grocery purchase.

Here are your tasks:

- Read through the entire packet before beginning.

- Count money to determine your shopping budget.

- Estimate the cost of the items your family members want you to purchase.

- Help your sister calculate how much money she has in her piggy bank.

- Determine the price of items at the supermarket by counting coins and calculating coupons and sales.

- Solve one- and two-step word problems about item prices.

- Keep track of how much money you are spending to ensure you don't go over budget.

- Complete the challenge pages. (Optional)

- Complete the self-reflection and evaluation rubric.

SETTING THE BUDGET

Before you leave for the store, your mom gives you the money to buy the groceries. She shows you the type and number of bills and coins, below. Calculate how much money you have to spend at the supermarket. Write the amount under each bill and coin type.

2 – $20 bills	3 – $10 bills	4 – $5 bills	4 – $1 bills	2 quarters	3 dimes	3 nickels	5 pennies
_____	_____	_____	_____	_____	_____	_____	_____

1. Find the total amount of money you have. Show your work below.

2. The total budget for my supermarket shopping trip is: _____
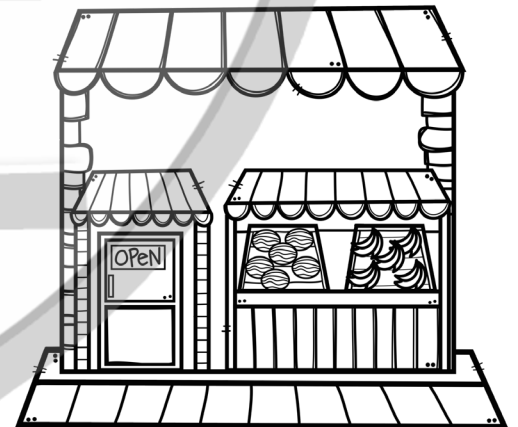
MOM'S GROCERY LIST

Different people in your family have given you lists of things they need from the store. Below is the list of items Mom wants. Estimate what you think the cost of each item may be to the nearest dollar. Then, find the total estimate.

Item	My Estimate
1 gallon of milk	$
1 loaf of bread	$
1 fish	$
1 jar of peanut butter	$
2 pounds of cherries	$
TOTAL	$

BUDGET CHECK #1

It's important that you keep track of the budget to make sure you have enough money to buy all the items. In the table below, fill in your estimate for Mom's groceries from the previous page. Calculate how much money you estimate you will have left after getting Mom's items.

Person's Groceries	Estimated Cost	Estimated Total Cost
Mom		
Grandma		
Dad		
Julia		

Final Amount Remaining

$95	−		=	
Starting Budget		Estimated Total Cost		Money Remaining

GRANDMA'S RECIPE

Your grandmother needs the ingredients to make a loaf of her special banana bread. She gave you the recipe card so that you can be sure to purchase all the necessary ingredients. Read the recipe card and highlight all the ingredients you need to purchase.

grandma's special banana bread

Ingredients
3 ripe bananas, mashed

1 cup sugar

1 egg

¼ cup melted butter

1 ½ cups flour

1 tsp. salt

Directions
- Preheat oven to 325 degrees.
- Put all ingredients into a large bowl. Mix well.
- Pour batter into greased loaf pan.
- Bake 1 hour.
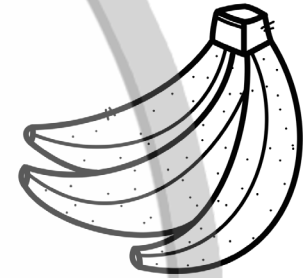
Now, complete the table with the items you will need to purchase for Grandma. Estimate the price of each item to the nearest dollar. Then, find the total estimate.

Item	My Estimate
	$
	$
	$
	$
	$
	$
TOTAL	$

DAD'S COOKOUT

Your dad is having your Uncle Ricky over tomorrow for a cookout. He needs you to pick up some items for him to barbecue, but he doesn't want to spend more than $25 on all the ingredients. Below are a list of some items Dad could use for his cookout and what you estimate they might cost. Circle the items you are going to get for Dad. Remember: you need enough food for Dad and Uncle Ricky to have for dinner, but you can't spend more than $25.

| 2 steaks $18 | 1 chicken $8 | 2 ears of corn $3 | Sausage links $6 | Quart of lemonade $2 | 1 pound shrimp $14 | 4 turkey legs $16 |

Now, complete the table with the items you will purchase for Dad and the estimated prices from above. You might not use all spaces in the table. Calculate the total estimated cost.

Item	My Estimate
	$
	$
	$
	$
	$
TOTAL	$

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JULIA'S PIGGY BANK

Your sister, Julia, has been doing odd jobs for the neighbors after school, and she has been saving up the money she has earned in her piggy bank. Answer the questions below.

1. Julia has walked your neighbor's dog every day for the past 3 days. Each day, she is paid $5. Write and solve a multiplication equation to see how much Julia has earned dog walking.

2. Julia earned $18 by weeding Mrs. Morrison's garden. She put an equal amount towards buying a candy bar, buying a new notebook, and saving in her piggy bank. How much money does Julie have saved from weeding?

3. Your parents give Julia a quarter each day she makes her bed. She has made her bed 8 times in the last two weeks. How much money does Julia have from making her bed?

4. How much money does Julia have in total?

5. Julia gives you a shopping list that she estimates will cost $18. How much money will she have left over after?

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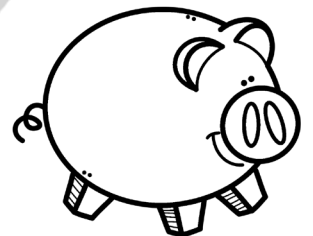
PRODUCE AISLE

You have arrived at the grocery store! Your first stop is the produce aisle. From this aisle, you need to buy one pound of cherries for Mom and a bunch of bananas for Grandma. Answer the questions below.

1.   There are three different types of cherries to choose from. Fill in the missing prices below.

Rainier Cherries
Cost: $3.89 per pound

Bing Cherries
Cost: 10¢ less per pound than Rainier cherries. They cost _____ per pound.

Morello Cherries
Cost: 21¢ more per pound than Bing cherries. They cost _____ per pound.

2.   You call your mom to ask which type of cherries to buy. She tells you to buy two pounds of Morello cherries. The cherries cost: _____ .

3.   There is a sale on bananas today. Each banana costs 10¢. If you buy a bunch of 10 bananas, how much will it cost? Use multiplication to solve.

4.   How much did you spend in total in the produce aisle?

DAD'S COOKOUT ITEMS

Next, you pick up the items for Dad's cookout. Look back at which items you chose for Dad's cookout on page 10 and drag a check to those items. The actual prices are listed below as division or multiplication equations. Solve.

2 steaks
$2 \times 9 = \$$ ___

1 chicken
$36 \div 6 = \$$ ___

2 ears of corn
$8 \div 4 = \$$ ___

Sausage links
$40 \div 8 = \$$ ___

Quart of lemonade
$28 \div 7 = \$$ ___

1 pound shrimp
$4 \times 4 = \$$ ___

4 turkey legs
$5 \times 3 = \$$ ___

1. Calculate the actual total cost of the items you chose.

2. Remember that Dad had a budget of $25. Do your items still fit within that budget? Explain.

3. If necessary, make any changes to your item choices to make sure your total is less than $25, or add any extra items to get closer to the budget. Explain any changes you made here.

4. You had $25 set aside for Dad's cookout. How much of that money will be left over after buying these items?

DRIED GOODS

Your next stop is the section of the supermarket with dried goods – items that won't perish (like fruits and veggies do) and don't need to be kept cold. The table below shows the items you need in this section.

Item	Loaf of Bread	Jar of Peanut Butter	Bag of Sugar	Bag of Flour	Canister of Salt
Cost					

1. A loaf of French bread costs $3. A loaf of sourdough bread costs twice as much as French bread. You can get three loaves of wheat bread for the price of one loaf of sourdough bread. You buy one loaf of wheat bread. How much does your bread cost? Fill in the price in the table.

2. Peanut butter costs $2 per pound. You buy an economy-sized jar of peanut butter that weighs 3 pounds. How much does the peanut butter cost? Fill in the price in the table.

3. A bag of sugar and flour together cost $5. The bag of sugar is $1 more than the bag of flour. How much does each item cost? Fill in the table with the prices.

4. Nine canisters of salt cost $18. How much does each canister of salt cost? Fill in the table with the price.

5. How much will the dried goods cost in total?

BUDGET CHECK #7

In the table below, copy the data for how much you spent in the produce aisle and Dad's cookout items from Budget Check #6. Next, fill in the cost of the dried goods. Calculate how much money you have left to do the rest of the shopping.

Category	Cost	Total Running Cost
Produce Aisle		
Dad's Cookout		
Dried Goods		
Refrigerated Goods		
At the Checkout		

Final Amount Remaining

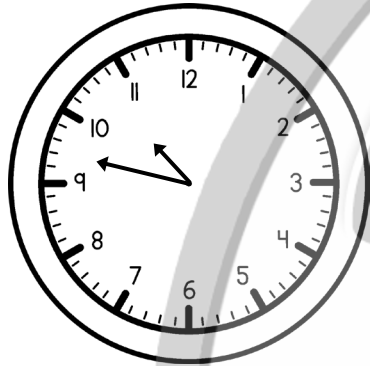| $95	–		=	
Starting Budget		Total Running Cost		Money Remaining

CHALLENGE #1: TIME

The clocks below show at what time you began shopping in each aisle at the supermarket. Use the clocks to answer the questions.

Produce Aisle	Dried Goods Aisle	Refrigerated Aisle	Checkout
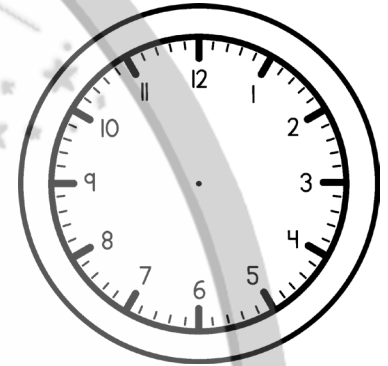
1. You go directly to the dried goods aisle when you finish in the produce aisle. How long did you spend shopping in the produce aisle? Show your work on the number line.

<--->

2. When you finish in the dried goods aisle, you call your best friend and spend 4 minutes talking on the phone. When you hang up, you start shopping in the refrigerated aisle at the time shown on the clock. How long did you spend in the dried goods aisle?

<--->

CHALLENGE #2: PICKING TREATS

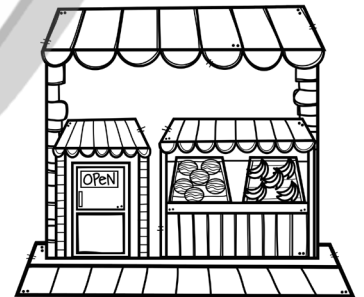In the checkout line, you find an extra $5 bill in your pocket that you had forgotten about! You decide to use this money to buy yourself a treat for a job well done. The table below shows the prices of some goodies in the checkout aisle.

Treat	Chips	Candy Bar	Gummy Bears	Jerky	Mints	Fruit Snacks
Price	$1.45	$1.30	$2.05	95¢	$1.05	$1.55

1. If you bought gummy bears and a candy bar, how much would it cost? How much change would you receive?

2. What combination of treats could you purchase that would cost exactly $5 all together?

3. Which treats do you choose to buy? You can buy as many or as few as you would like, but your total must not be more than $5. How much do your treats cost?

4. How much change will you receive after paying for your treats with a $5 bill?

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

Circle the statement you most agree with.

I am ready for something harder.   This was just right.   I found this very challenging.

SELF-EVALUATION

Circle or shade one box per row on the rubric that expresses how you rate yourself on this Project Based Learning Activity.

+	✔	−
I felt very confident about the math in this project.	I felt pretty good about my ability to complete the math in this project.	I felt a lot of the math in this project was too hard for me to do alone.
I understood all of the math and did not need help to complete the problems.	I understood most of the math but needed a little help to solve some of the problems.	I understood some of the math but needed help to complete most of the problems.
I easily used many strategies to solve the math problems efficiently.	I needed some help to use the best strategies for solving the math problems.	I had trouble understanding the best way to solve many of the math problems.
I feel I am ready for a harder math project.	I feel I would like to spend more time practicing similar math problems.	I feel I need assistance to work on similar math problems

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2nd – 3rd Grade
Main Idea
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Pirate Themed Escape Room
Text Features
Print and Digital

MATH BUNDLE #1
Project Based Learning
3rd Grade Print & Digital
Cupcakes Galore
Project Based Learning
BUILD A ZOO
Project Based Learning
Measure Twice, Cut Once
Measurement Project Based Learning

MATH BUNDLE #2
Project Based Learning
3rd Grade Print & Digital
ICE CREAM TRUCK MANIA
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