

# SUPERMARKET SPREE

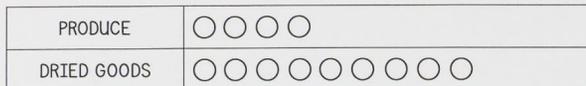
## Project Based Learning

1st Grade

### CHALLENGE #3: CHECKING OUT

The pictograph below shows how many items you purchased from each section of the supermarket. Use the pictograph to answer the questions.

ITEMS PURCHASED AT SUPERMARKET



- How many items did you purchase from the produce section?  
7
- How many items did you purchase from the dried goods section?  
5
- How many items did you purchase from the refrigerated aisle?  
20
- At the checkout, how many items did you purchase?  
5

### 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

### DAD'S COOKOUT

Your dad is going to have a cookout for him to buy some of some items that you are going to need for dinner, but...



2 steaks  
\$18

Now, compare the price of the items you purchased from the list above. You will need to fill in all spaces.

### GRANDMA'S RECIPE

Your grandmother needs the ingredients to make 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.

### 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.

Item	Estimated Cost	Actual Cost
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Print and Digital



## CHALLENGE #3: CHECKING OUT

The pictograph below shows how many items you purchased from each section of the supermarket. Use the pictograph to answer the questions.

ITEMS PURCHASED AT SUPERMARKET

PRODUCE	○○○○
DRIED GOODS	○○○○○○○○○○

- How many items did you purchase from the produce section?  
**7**
- How many items did you purchase from the dried goods section?  
**5**
- How many items did you purchase from the refrigerated aisle?  
**20**
- At the checkout, how many items did you purchase?  
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2 steaks  
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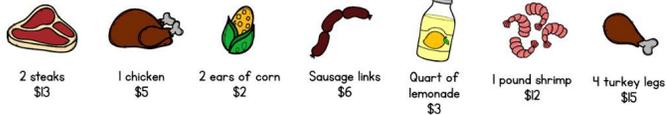
Person's Groceries	Estimated Cost	Estimated Total Cost
Mom	<b>\$30</b>	<b>\$80</b>
Grandma	<b>\$50</b>	<b>\$70</b>
Dad	<b>\$10</b>	<b>\$50</b>
Julia	<b>\$5</b>	<b>\$40</b>
Estimated Total Cost So Far		<b>\$210</b>



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## 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 slide 10. Drag a check to those items. The actual prices are listed below.



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

2. Remember that Dad has a budget of \$20. Do your items fit within that budget? Explain.

3. If necessary, make any changes to your item choices to make sure your total is less than \$20, or add any extra items to get closer to the budget. Explain any changes you made here.

4. You had \$20 set aside for Dad's cookout. How much of that money will be left over after buying these items?

## CHALLENGE #3: CHECKING OUT

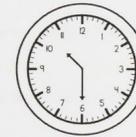
The pictograph below shows how many items you purchased from each section of the supermarket. Use the pictograph to answer the questions.

ITEMS PURCHASED AT SUPERMARKET



## CHALLENGE #1: TIME

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Produce Aisle



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Refrigerated Aisle



Checkout

## 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

## GRANDMA'S RECIPE

Your grandmother needs the ingredients to make 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	
<b>Ingredients</b>	<b>Directions</b>
3 ripe bananas, mashed	• Preheat oven to 325 degrees.
3/4 cup sugar	• Put all ingredients into a large bowl. Mix well.
1 egg	• Pour batter into greased loaf pan.
1/4 cup melted butter	• Bake 1 hour.
1 1/2 cups flour	
1 tsp. salt	



Now, complete the table with the items you will need to purchase for Grandma. Estimate the price of each item. Then, find the total estimate.

Item	My Estimate
Banana	\$ 2 . 3
Egg	\$ 1 . 1
Sugar	\$ 10 . 1
Salt	\$ 3 . 1
Flour	\$ 5 . 2
Butter	\$ 8 . 1
TOTAL	\$ 29 . 9

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RESOURCE!

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# FOR THE TEACHER

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

- 1.OA.A.1 Use addition and subtraction within 20 to solve word problems.
- 1.OA.C.5 Relate counting to addition and subtraction.
- 1.NBT.B.3 Compare two two-digit numbers based on meanings of the tens and ones digits.
- 1.NBT.C.4 Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10.
- 1.NBT.C.5 Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count.
- 1.MD.B.3 Tell and write time in hours and half-hours using analog and digital clocks.
- 1.MD.C.4 Organize, represent, and interpret data with up to three categories.



## 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.

# 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.



# SETTING THE BUDGET

Before you leave for the store, your mom gives you the money to buy the groceries. She shows you the bills below. Calculate how much money you have to spend at the supermarket.



\$10



\$20



\$30



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

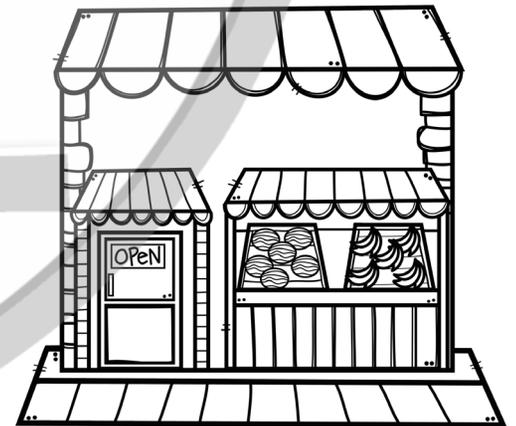


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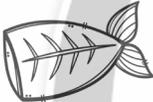
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1. Count your money. Keep track of the total by writing the amount under each bill as you count by 10s.
2. How much money did your mom give you?
3. As you are about to leave the house, your dad gives you \$5 extra. How much money do you have now?



# 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	\$
 1 pound of cherries	\$
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. He doesn't want to spend more than \$20 on all the ingredients. Below is a list of some items Dad could use for his cookout. Below each item is what you estimate it 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 \$20.



2 steaks  
\$12



1 chicken  
\$6



2 ears of corn  
\$3



Sausage links  
\$4



Quart of  
lemonade  
\$2



1 pound shrimp  
\$14



4 turkey legs  
\$11

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.

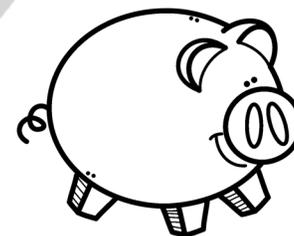
Calculate the total estimated cost.

Item	My Estimate
	\$
	\$
	\$
	\$
	\$
TOTAL	\$

# JULIA'S PIGGY BANK

Your sister, Julia, has been doing odd jobs for the neighbors after school. 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. On Monday, she was paid \$6. On Tuesday, she was paid \$4. On Wednesday, she was paid \$5. How much did Julia make from dog-walking?
2. Julia earned \$9 by weeding Mrs. Morrison's garden. She spent \$6 of what she earned on a new book, but she saved the rest. How much money does Julie have from weeding?
3. Your parents gave Julia \$10 last week as an allowance. Each day for the past 4 days, she has spent \$2 at the corner store. How much allowance does Julia have left? Draw a diagram to solve.
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?



# BUDGET CHECK #4

Julia's money was already included in the bills your mom gave you. In the table below, copy the data for your estimates for Mom's, Grandma's, and Dad's groceries from Budget Check #3. Julia's estimate for her items is filled in for you. Calculate how much money you estimate to have spent in total so far. Do you think you will stay under budget for your shopping trip? Compare the estimated amount you spent with your budget.

Person's Groceries	Estimated Cost	Estimated Total Cost
Mom		
Grandma		
Dad		
Julia	\$18	
Final Estimated Total Cost		
Is your estimate under budget?		<div style="display: flex; align-items: center; justify-content: center;"> <div style="border-bottom: 1px solid black; width: 100px; margin-right: 10px;"></div> <div style="margin-right: 10px;"> <input type="radio"/> </div> </div> <div style="display: flex; justify-content: space-between; width: 100%;"> <span>Estimated Amount Spent</span> <span>\$95</span> <span>Budget</span> </div>



# 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 per pound



Bing Cherries  
Cost: \$1 less per pound than  
Rainier cherries. They cost  
\_\_\_\_\_ per pound.



Morello Cherries  
Cost: \$2 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 one pound 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? Count by 10s to find the answer. Show your counting.
4. How much did you spend in total in the produce aisle?



# 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

\_\_\_\_\_



3 pound Red Snapper  
\$7 per pound

\_\_\_\_\_



1 pound Salmon  
\$14.50 per pound

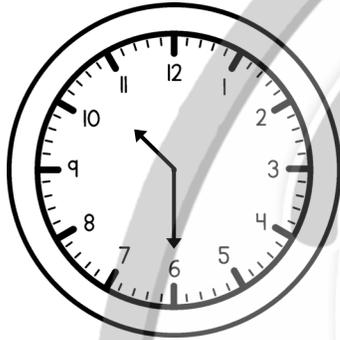
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- Using the price per pound and the weight of each fish, determine the total price of each, and write the prices in the spaces.
- Your mom told you not to buy the most expensive fish or the least expensive fish when looking at the total price. Which fish do you buy?
- Next, you stop at the dairy refrigerator. Your mom told you to buy the type of milk that costs \$3 per gallon. Solve for the missing numbers below. The answer is the price of each milk. Which milk do you choose?

Type of Milk	Skim	1%	2%	Whole
Find the Missing Number	$6 = 2 + \underline{\quad}$	$10 = \underline{\quad} + 5$	$\underline{\quad} + 3 = 9$	$8 + \underline{\quad} = 11$
Price per Gallon (in dollars)				

# 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

\_\_\_\_\_



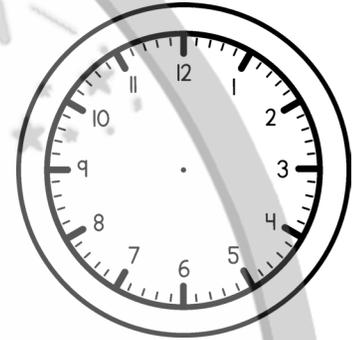
Dried Goods Aisle

\_\_\_\_\_



Refrigerated Aisle

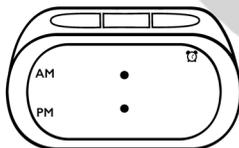
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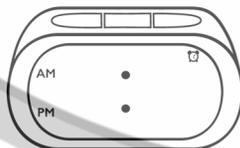
Checkout

\_\_\_\_\_

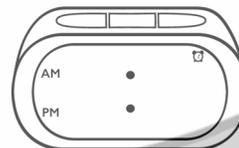
1. Write the time shown on each clock in the space underneath.
2. You arrive at the checkout at 12:00. Draw hands on the clock showing this time.
3. It takes you a half hour to get home with all the groceries after you check out. What time do you arrive home?
4. Write each time from the analog clocks above on the digital clocks below.



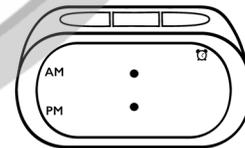
Produce Aisle



Dried Goods Aisle



Refrigerated Aisle



Checkout

# 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.

+	✓	-
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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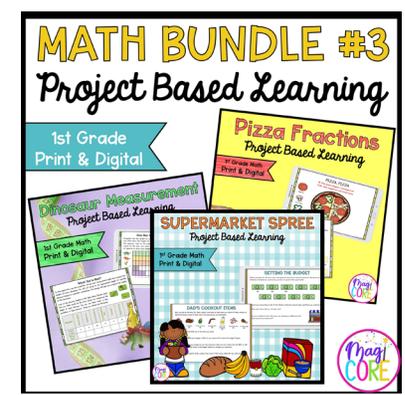
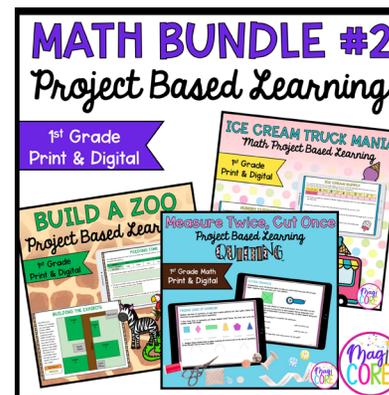
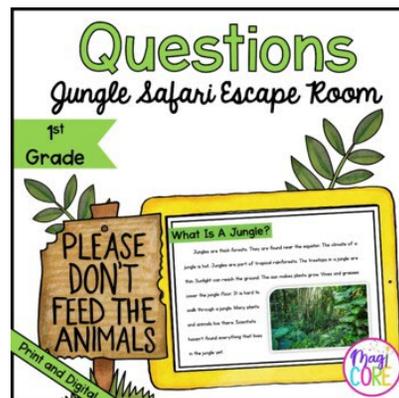
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