

# THANKSGIVING FEAST

## Project Based Learning

5th Grade Print & Google Slides

**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?

**SETTING THE TABLE**

7. You have a decorative garland you want to wrap around tables 2 and 3. Wrap each table and perimeter and meters. Find the length of each side.

8. A diagram shows dimensions in centimeters. Convert these dimensions into millimeters.

9. You have a container that is 2 in. wide, 3 in. long, and 5 in. high. Do you have enough garland to wrap around all four sides of the container?

**CHALLENGE #2: MASHED POTATOES**

5. Grandma also brought a gravy container. The gravy container is a cube as shown here.

6. There are 25 servings of mashed potatoes. If each serving has 230 calories, how many total calories are there in the mashed potatoes?

7. At the end of the feast, there were 10 pounds of leftovers. How many cups of leftovers were left?

8. You need to pack 10 different containers for the leftovers. Container #1 is a rectangular prism that is 2 in. wide, 3 in. long, and 5 in. high. Container #2 is a cube that is 3 in. wide, 3 in. long, and 3 in. high. Container #3 is a rectangular prism that is 4 in. wide, 5 in. long, and 2 in. high. Container #4 is a cube that is 2 in. wide, 2 in. long, and 2 in. high. Container #5 is a rectangular prism that is 3 in. wide, 4 in. long, and 3 in. high. Container #6 is a cube that is 2 in. wide, 2 in. long, and 2 in. high. Container #7 is a rectangular prism that is 4 in. wide, 6 in. long, and 2 in. high. Container #8 is a cube that is 3 in. wide, 3 in. long, and 3 in. high. Container #9 is a rectangular prism that is 5 in. wide, 7 in. long, and 2 in. high. Container #10 is a cube that is 3 in. wide, 3 in. long, and 3 in. high.

**CHALLENGE #1: FEAST NUTRITION**

Some of your relatives are health-conscious and have asked you to calculate the number of calories in one serving of the different dishes at your feast. The data is on the clipboard. Fill in the labels and title of the graph. Plot the data by shading the bars.

**Calories of the Feast**

Dish	Calories per Serving
Turkey	156
Apple Pie	282
Stuffing	195
Mac & Cheese	274
Sweet Potatoes	228

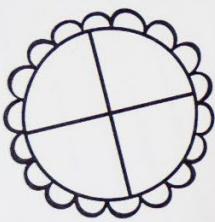
Calories Per Serving

Y-axis label: Calories Per Serving

X-axis label: Dish

300  
275  
250  
225  
200  
175  
150  
125  
100  
75  
50  
25  
0

# PIES GALORE

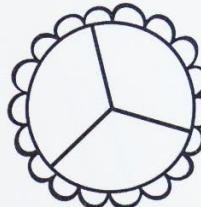


Apple

4. Compare the given slices



Cherry



Peanut Butter

- of each pie the number of

# BAKING ROLLS

Your first step in preparing the feast is to bake dinner rolls. You are following the recipe on the recipe card below. Use the recipe card to answer the questions below.

## Yummiest dinner rolls

### Ingredients

4  $\frac{1}{4}$  cups of flour  
1  $\frac{1}{2}$  cup sugar  
3 eggs  
2  $\frac{2}{3}$  cups butter  
2  $\frac{1}{2}$  tsp. salt  
5 tsp. yeast

### Directions

- Preheat oven to 325 degrees.
- Put all ingredients into a large bowl. Mix well.
- Knead dough on floured surface. Form into 8 dinner rolls.
- Bake until golden brown.

- You need two times as much yeast as you do salt. Fill in the amount of yeast needed on the recipe.
- You decide you need to make 6 times as many rolls as the recipe produces. How many rolls do you need?

$$8 \times 6 = 48 \text{ rolls}$$

1. Use multiplication to fill in the table with the amount of each ingredient you will need to make all your dinner rolls.

Ingredient	Flour	Sugar	Eggs	Butter	Salt	Yeast
Multiplication Equation	$4\frac{1}{4} \times 6$	$1.5 \times 6$	$0 \times 6$	$2\frac{2}{3} \times 6$	$2\frac{1}{2} \times 6$	$5 \times 6$
Amount Needed	25 $\frac{1}{2}$ c.	9 c.	18 c.	16 c.	15 tsp.	30 tsp.

4. There are 20 people at your feast. How many rolls will each person get? How many will be left over?

$$48 \div 20 = 2 \text{ with } 8 \text{ left over}$$

8  $\times$  6 = 48 rolls

# SETTING THE TABLE

3. Your mom has given you a few tablecloth options for Table I. You need to determine the area of the table and each tablecloth to determine which one will fit the best. Fill in the table below with the missing numbers.

Surface	Table I	Tablecloth A	Tablecloth B	Tablecloth C	Tablecloth D
Length (in meters)	2.75 meters	2 meters	3 meters	2 meters	2.2 meters
Width (in meters)	1.5 meters	2.75 meters	1.82 meters	2.3 meters	1.5 meters
Area (in sq. meters)	4.125 sq m	5.5 sq meters	5.46 sq meters	4.6 sq meters	4.95 sq meters

4. The tablecloth you choose for Table I must have a greater area than the table itself, and its length and width must also both be greater than the dimensions of the table. Which tablecloth do you choose? Explain.

tablecloth B. The table length is 3 meters and the

tablecloth is 3 meters. the width is 1.5 meters and the cloth is 1.82.

$$300\text{cm} \times 182\text{cm} = 546 \text{ sq cm}$$

5. Find the dimensions and area of your chosen tablecloth in centimeters.

$$300\text{cm} = 120 \text{ inches} \quad 182\text{cm} = 72.8 \text{ inches}$$

$$120'' \times 72.8'' = 8,736 ''$$





**ON THE SIDE**

You are making some tasty side dishes for your Thanksgiving feast. You calculate the masses of each side dish to ensure that there will be enough to go around for everyone. Answer the questions below.

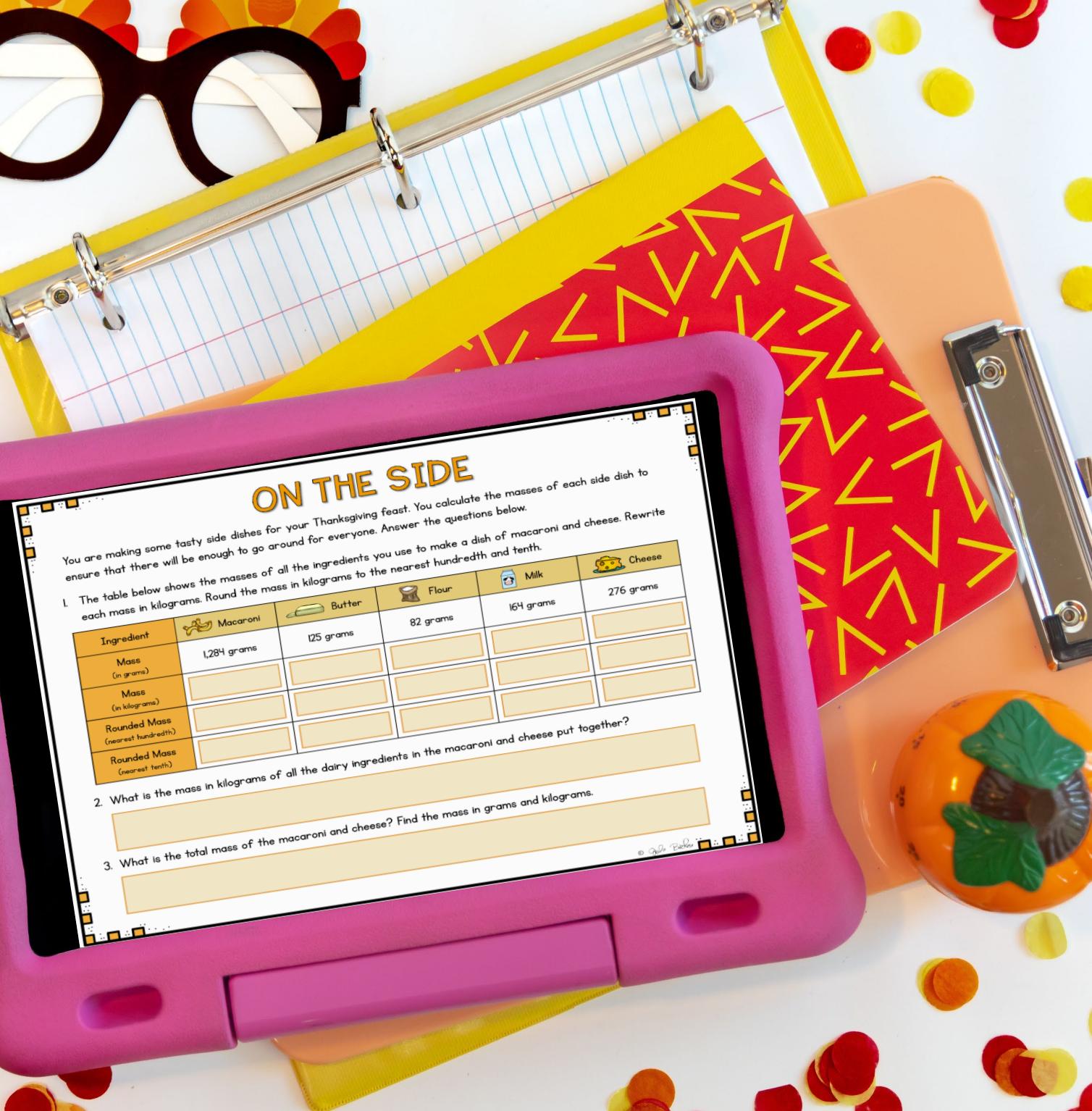
1. The table below shows the masses of all the ingredients you use to make a dish of macaroni and cheese. Rewrite each mass in kilograms. Round the mass in kilograms to the nearest hundredth and tenth.

Ingredient	Macaroni	Butter	Flour	Milk	Cheese
Mass (in grams)	1,284 grams	125 grams	82 grams	164 grams	276 grams
Mass (in kilograms)					
Rounded Mass (nearest hundredth)					
Rounded Mass (nearest tenth)					

2. What is the mass in kilograms of all the dairy ingredients in the macaroni and cheese put together?

3. What is the total mass of the macaroni and cheese? Find the mass in grams and kilograms.

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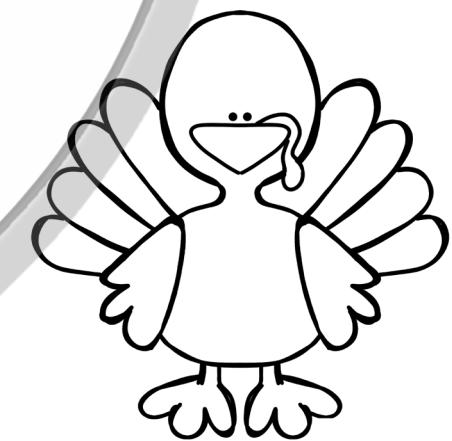
# FOR THE TEACHER

**THANKSGIVING FEAST** is a project-based learning task that involves using fifth grade math standards to plan for a Thanksgiving feast. It was created for students in fifth grade. The following standards are addressed:

- 5.NBT.A.4 Use place value understanding to round decimals to any place.
- 5.NBT.B.5 Fluently multiply multi-digit whole numbers using the standard algorithm.
- 5.NBT.B.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors.
- 5.NBT.B.7 Add, subtract, multiply, and divide decimals to hundredths.
- 5.NF.A.2 Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators.
- 5.NF.B.4 Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.
- 5.NF.B.7 Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.
- 5.MD.A.1 Convert among different-sized standard measurement units within a given measurement system and use these conversions in solving multi-step, real world problems..
- 5.MD.C.5 Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.

## 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.

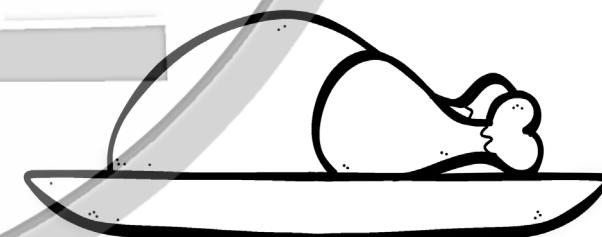


# THANKSGIVING FEAST

Thanksgiving is here, and your extended family has gathered at your house to celebrate the holiday! You are in charge of planning, preparing, and serving a magnificent and delicious Thanksgiving feast for your relatives to enjoy.

Here are your tasks:

- Read through the entire packet before beginning.
- Determine the ingredients and baking time for dinner rolls and arrange them on the baking sheets.
- Calculate the masses of all the ingredients to make your side dishes, like macaroni and cheese and sweet potato casserole.
- Time how long you need to cook the turkey.
- Bake and divide five types of pie into equal parts and compare the sizes of the different pieces of pie.
- Use geometry, area, and perimeter to set the tables for the feast.
- Complete the challenge pages. (Optional)
- Complete the self-reflection and evaluation rubric.



# BAKING ROLLS

Your first step in preparing the feast is to bake dinner rolls. You are following the recipe on the recipe card below. Use the recipe card to answer the questions below.

yummieest dinner rolls

<u>Ingredients</u>	<u>Directions</u>
4 $\frac{1}{4}$ cups of flour	• Preheat oven to 325 degrees.
1 $\frac{1}{2}$ cup sugar	• Put all ingredients into a large bowl. Mix well.
3 eggs	• Knead dough on floured surface.
2 $\frac{2}{3}$ cups butter	Form into 8 dinner rolls.
2 $\frac{1}{2}$ tsp. salt	• Bake until golden brown.
— tsp. yeast	

1. You need two times as much yeast as you do salt. Fill in the amount of yeast needed on the recipe.
2. You decide you need to make 6 times as many rolls as one recipe produces. How many rolls do you need?

3. Use multiplication to fill in the table with the amount of each ingredient you will need to make all your dinner rolls.

Ingredient	 Flour	 Sugar	 Eggs	 Butter	 Salt	 Yeast
Multiplication Equation						
Amount Needed						

4. There are 20 people at your feast. How many rolls will each person get? How many will be left over?

# ON THE SIDE

You are making some tasty side dishes for your Thanksgiving feast. You calculate the masses of each side dish to ensure that there will be enough to go around for everyone. Answer the questions below.

- I. The table below shows the masses of all the ingredients you use to make a dish of macaroni and cheese. Rewrite each mass in kilograms. Round the mass in kilograms to the nearest hundredth and tenth.

Ingredient	Macaroni	Butter	Flour	Milk	Cheese
Mass (in grams)	1,284 grams	125 grams	82 grams	164 grams	276 grams
Mass (in kilograms)					
Rounded Mass (nearest hundredth)					
Rounded Mass (nearest tenth)					

2. What is the mass in kilograms of all the dairy ingredients in the macaroni and cheese put together?
3. What is the total mass of the macaroni and cheese? Find the mass in grams and kilograms.

# TURKEY TIME

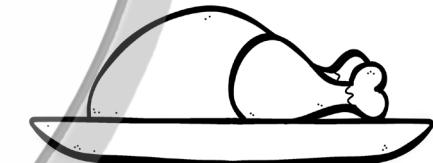
3. You know you need to cook the turkey for 2.25 hours before rotating it in the oven. At what time will you rotate the turkey? Use the number line below to solve. Then, draw hands to show the time on the clock.



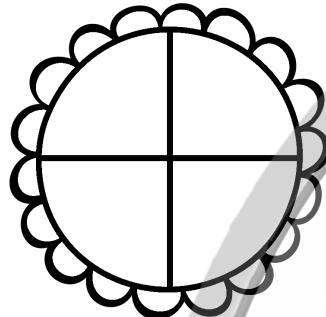
4. After you rotate the turkey, you take it out of the oven at the time shown on the clock. Write the time in the space under the clock. How long was the turkey cooking after you rotated it? Use the number line below to solve.



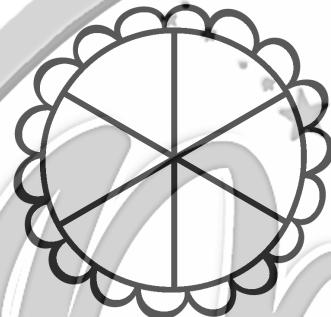
5. After you take the turkey out of the oven, you let it cool for 1,080 seconds before slicing it. At what time do you slice the turkey? Use the number line below to solve.



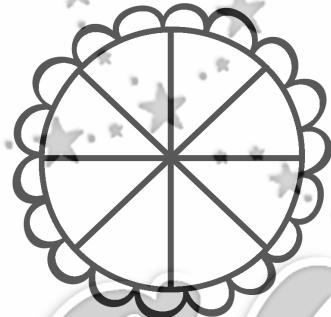
# PIES GALORE



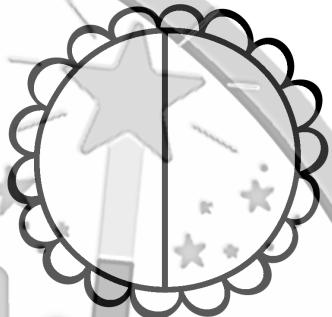
Apple



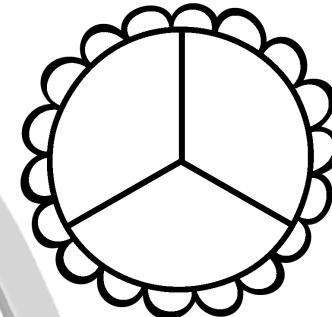
Pumpkin



Pecan

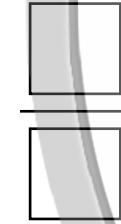


Cherry



Peanut Butter

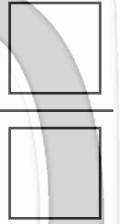
4. Compare the sizes of the slices of different pies below. Fill in the missing fractions of each pie the number of given slices represents. Complete the comparison with  $<$ ,  $>$ , or  $=$ .



2 slices of  
apple pie



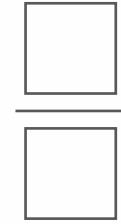
3 slices of  
pecan pie



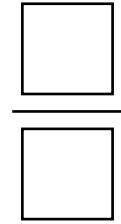
2 slices of  
pumpkin pie



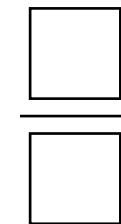
1 slice of  
peanut butter pie



1 slice of  
cherry pie



3 slices of  
apple pie



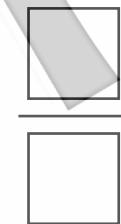
2 slices of  
peanut butter pie



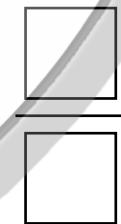
2 slices of  
cherry pie



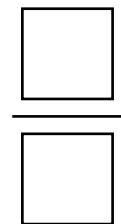
4 slices of  
pumpkin pie



4 slices of  
pecan pie



1 slice of  
apple pie



3 slices of  
pumpkin pie

# SETTING THE TABLE

The feast is almost ready! You are setting the table so that everyone can take a seat and get ready to eat. Answer the questions below.

- Since there are so many people at your feast, you have three different tables set up to fit everyone. The tables are shown below. Name the shape of each table in the spaces.



Table 1

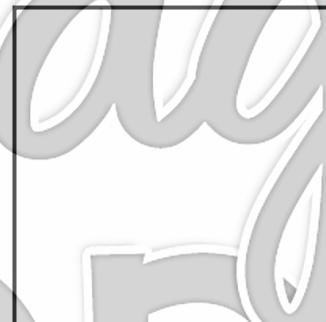


Table 2

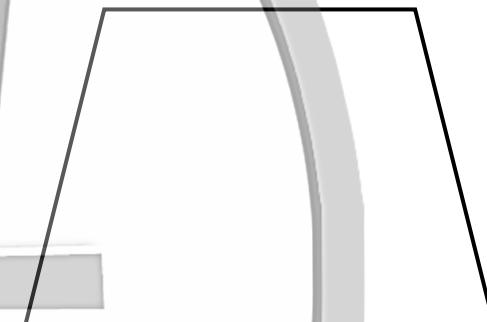


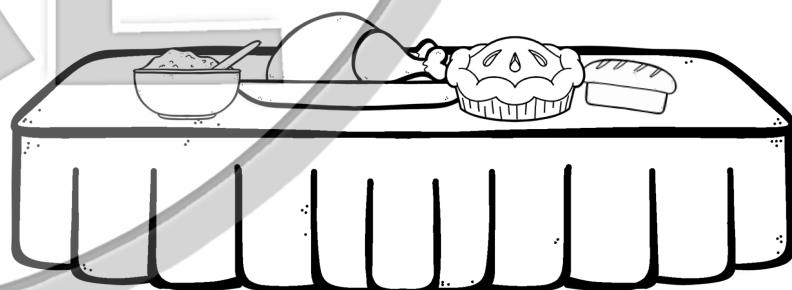
Table 3

- The boxes below contain descriptions of each table. Under each box, write the table number it describes.

A quadrilateral with one pair of parallel sides. The non-parallel sides are equal.

A quadrilateral with four right angles and four equal sides.

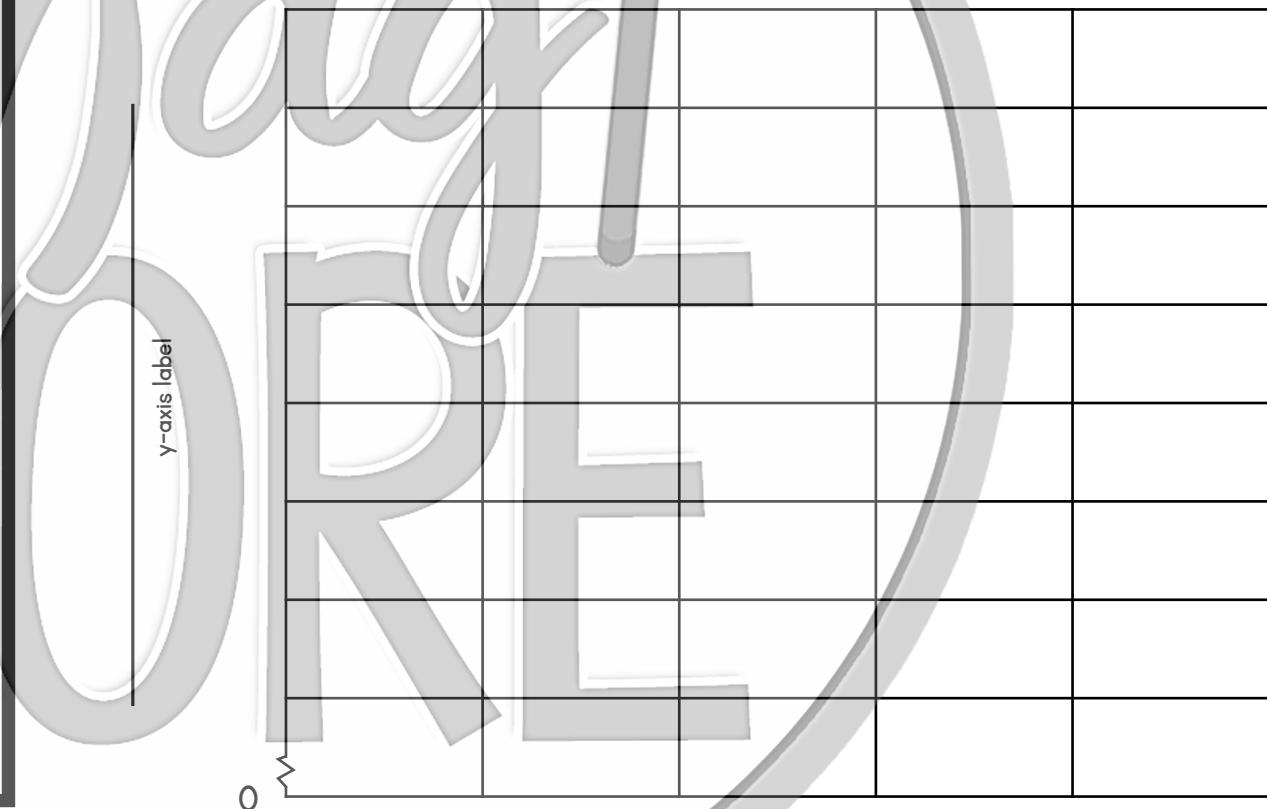
A quadrilateral with four right angles. Opposite sides are equal.



# CHALLENGE #1: FEAST NUTRITION

Some of your relatives are health-conscious and have asked you to calculate the number of calories in one serving of the different dishes at your feast. The data is on the clipboard. Fill in the labels and title of the graph. Plot the data by shading the bars.

Dish	Calories per Serving
Turkey	156
Apple Pie	282
Stuffing	195
Mac & Cheese	274
Sweet Potatoes	228



# **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?

A large, stylized graphic of the words "May Core" is centered on a sheet of white paper with horizontal ruling lines. The text is rendered in a bold, rounded font with a thick grey outline. The letters are partially cut out, revealing the white background behind them. The "M" and "C" are particularly prominent, with the "M" having a long, sweeping tail. The "O" in "Core" has a small vertical stroke extending from its top right corner. The entire graphic is set against a white background with faint horizontal lines, giving it the appearance of being written on a notebook page.

# 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 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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[Julie@magicorelearning.com](mailto:Julie@magicorelearning.com)

An advertisement for the "Virtual Field Trips: Bundle". The top half features the title in large, colorful letters. Below it is a stylized illustration of a yellow tablet with rounded corners, showing a video of a lush green rainforest. On the screen, there's a small red circular icon with a white 'K' and a pink circular icon with a white 'D'. The bottom right corner of the tablet screen has a green button with white text. The word "Chocolate!" is written in white at the bottom left. To the right of the tablet, there's a small image of a book titled "VIRTUAL FIELD TRIPS ON YOUR COMPUTER".

**MATH BUNDLE #1**  
Project Based Learning

**Cupcakes Galore**  
Project Based Learning

**5th Grade Math**  
Print & Digital

**BUILD A ZOO**  
Project Based Learning

**Measure Twice, Cut Once**  
Project Based Learning

**Double Digit by Double Digit**  
Multiplication Project Based Learning

**MATH BUNDLE #2**  
Project Based Learning

5th Grade  
Print & Digital

Design, Create, Dream  
Project Based Learning

5th Grade Math  
Print and Digital

ICE CREAM TRUCK MANIA  
Math Project-Based Learning

5th Grade  
Print & Digital

Soccer Tournament  
Project-Based Learning

5th Grade Math  
Print & Digital

May CORE



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