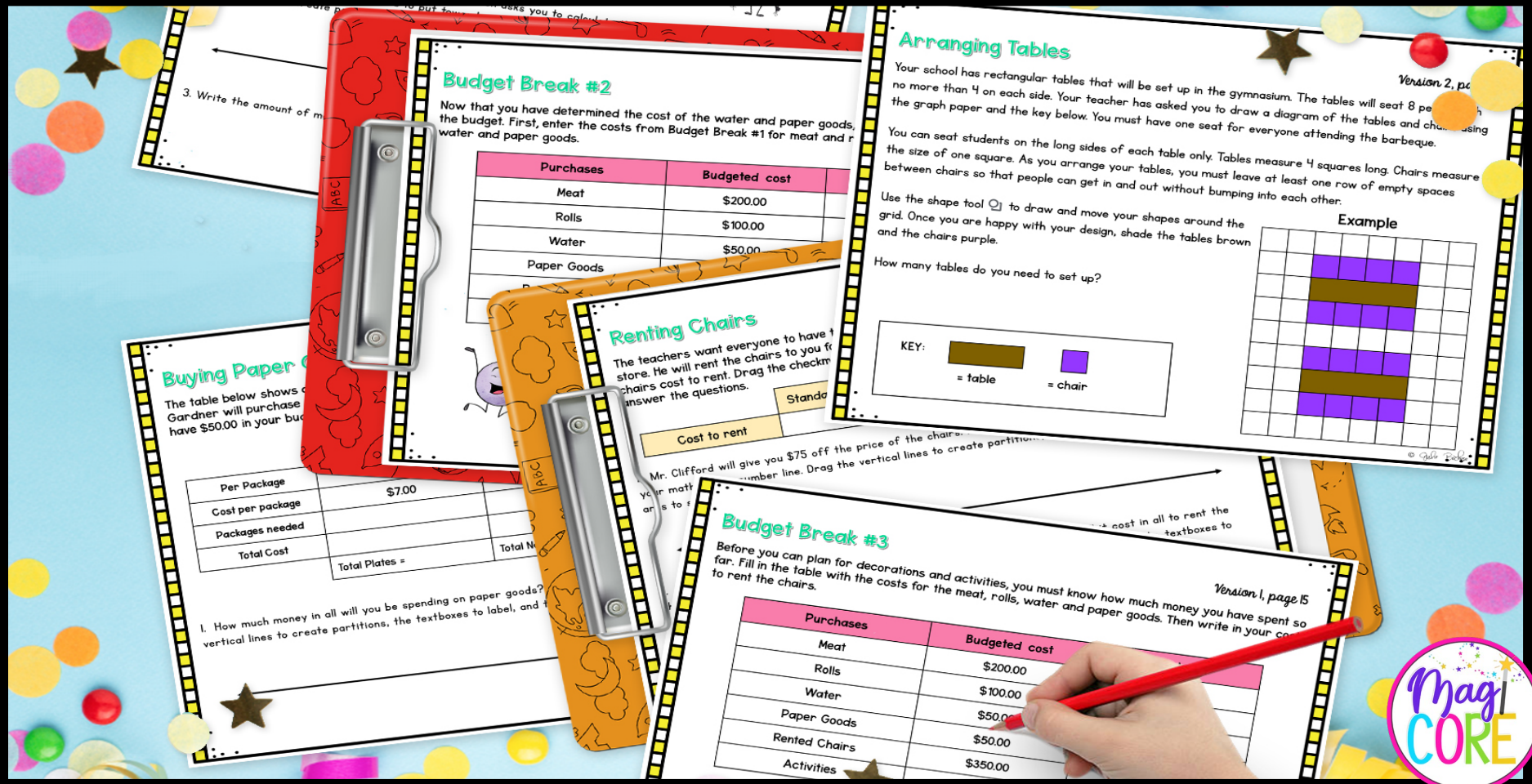
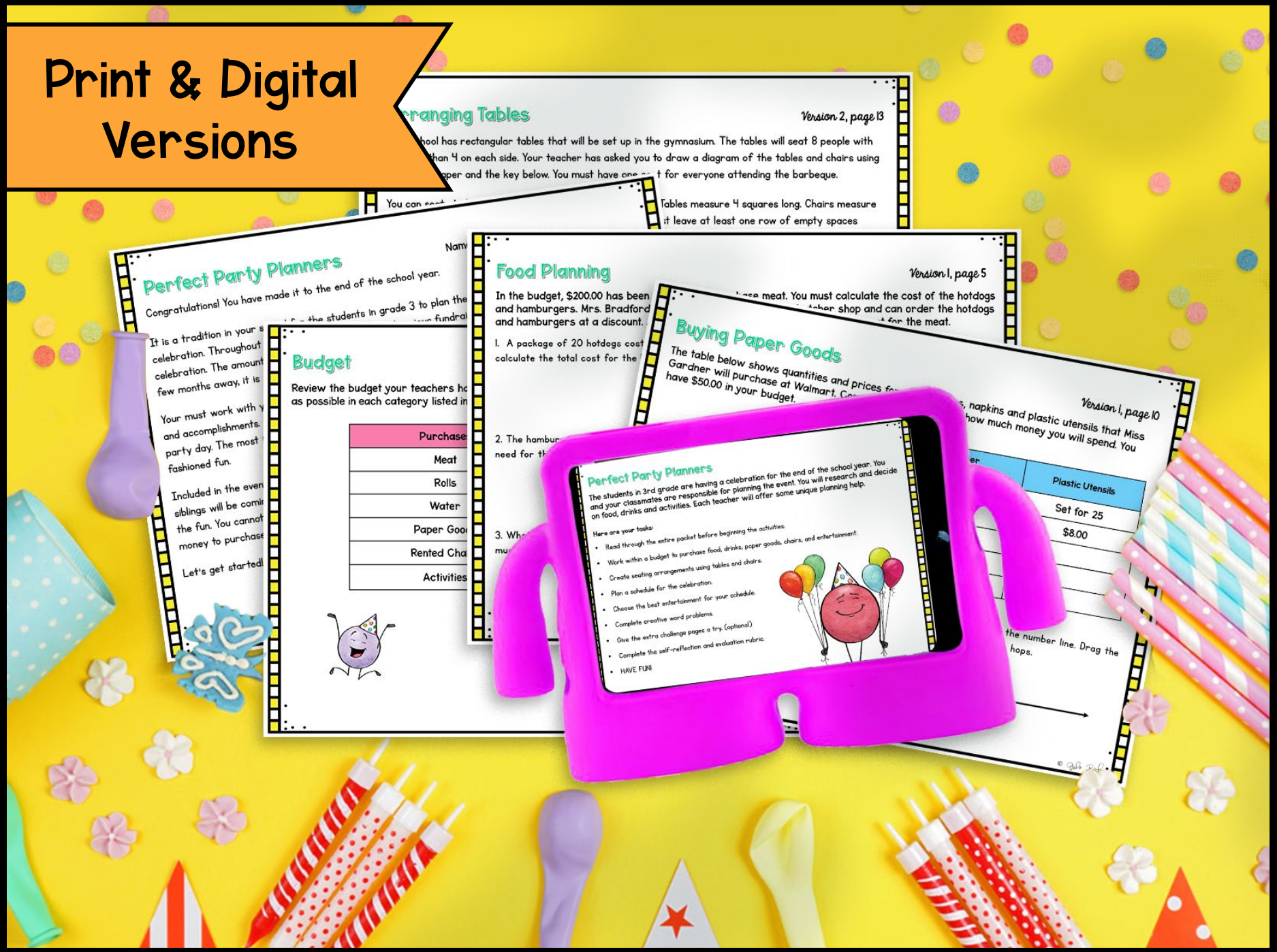
PERFECT PARY PLANNERS

Project Based Learning

3rd Grade Print & Google Slides



Print & Digital Versions



Aligned to Math Standards

Perfect Party Planners

Version 1, page 2

Complete the table using the data from the previous page. Then answer the questions.

	Votes for Campfire Fun	Votes for I Scream for Ice Cream	Votes for Lazy Luau	Total Students
Green's class				

Food Planning

In the budget, $200.00 has been set aside to purch
and hamburgers. Mrs. Bradford's husband works
and hamburgers at a discount. Answer the questio

1. A package of 20 hotdogs costs $9.00. Consider the
calculate the total cost for the hotdogs. Use the shap

Perfect Party Planners

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Buying Paper Goods

The table below shows quantities and prices for paper plates
Gardner will purchase at Walmart. Complete the
have $50.00 in your budget.

Version 1, page 10

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Arranging Tables

Version 2, page 13

Your school has rectangular tables that will be set up in the gymnasium. The tables will seat 8 people with no more than 4 on each side. Your teacher has asked you to draw a diagram of the tables and chairs using the graph paper and the key below. You must have one seat for everyone attending the barbeque.

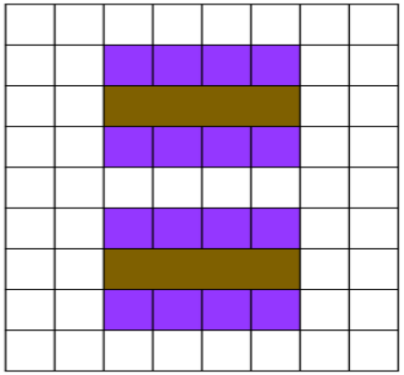
You can seat students on the long sides of each table only. Tables measure 4 squares long. Chairs measure the size of one square. As you arrange your tables, you must leave at least one row of empty spaces between chairs so that people can get in and out without bumping into each other.

Use the shape tool to draw and move your shapes around the grid. Once you are happy with your design, shade the tables brown and the chairs purple.

How many tables do you need to set up?

KEY: = table = chair

Example



Challenge Activities

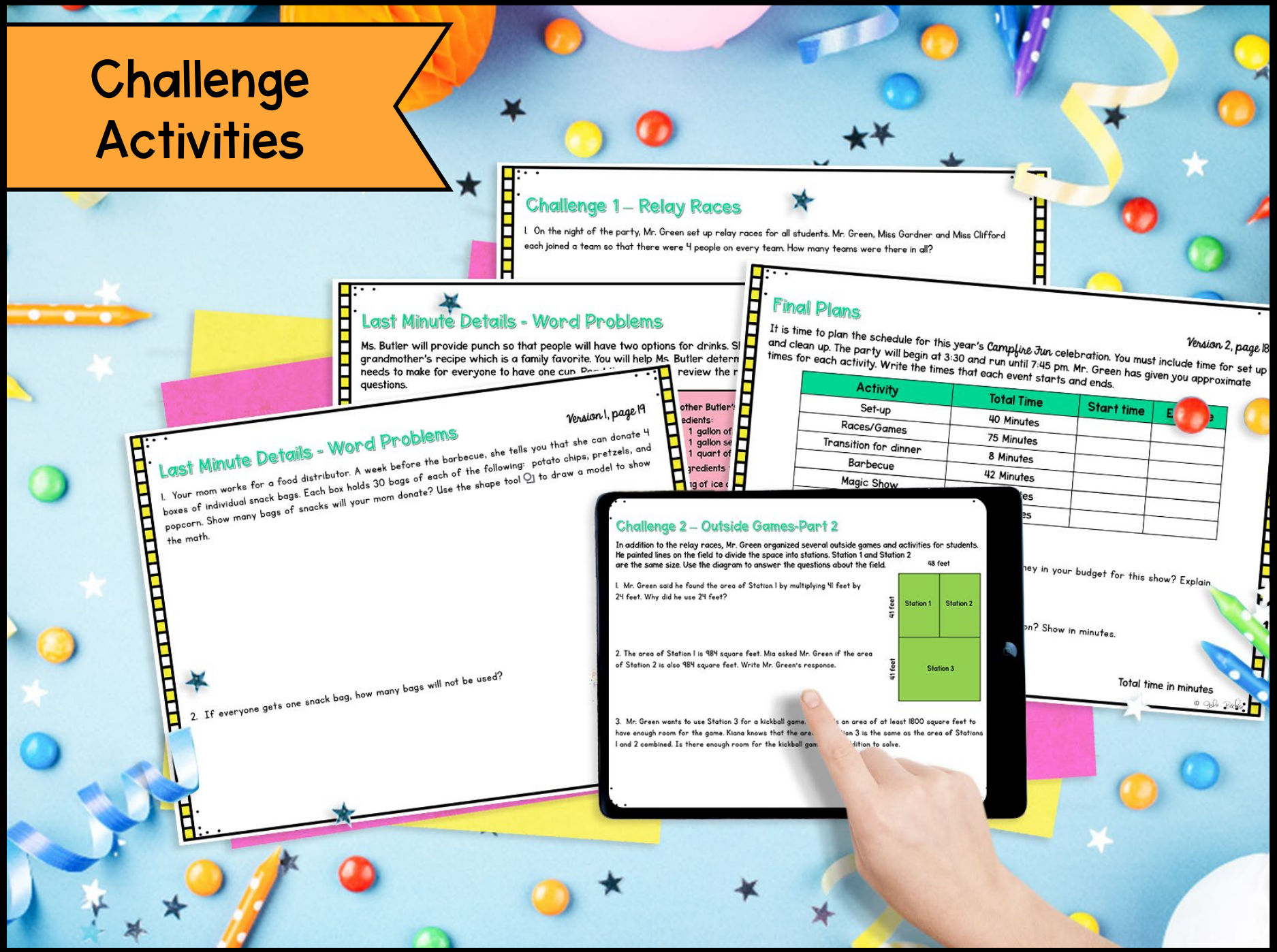
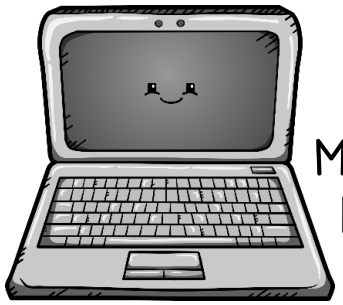


Table of Contents



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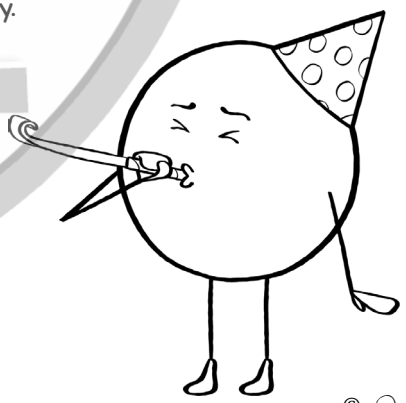
For the Teacher

Perfect Party Planners is a Project Based Learning packet that will provide your students a variety of engaging and fun math challenges using the theme of planning an end of school year celebration. Students will practice the following CCSS math standards:

- 3.OA.C.7 Fluently multiply and divide within 100.
- 3OA.D.8 Solve 2-step problems using the four operations.
- 3.NBT.A.1 Use place value understanding to round whole numbers to the nearest 10 or 100.
- 3.NBT.A.2 Fluently add and subtract within 1000 using strategies and algorithms based on properties of operations and/or the relationship between add/sub.
- 3.MD.A.1 Tell time, write time to the nearest minutes, and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes.
- 3.MD.B.3 Draw a scaled picture graph and bar graph to represent data with several categories. Solve problems using the data.
- 3.MD.C.5 Recognize area as an attribute of plane figures and understand concepts of area measurement.
- 3.MD.C.6 Measure areas by counting unit squares.
- 3.MD.C.7 Relate area to the operations of multiplication and addition.
- 3.MD.D.8 Solve real world and mathematical problems involving perimeter.

Directions:

1. Decide if your class will complete the project as a whole group, in small groups or independently.
2. Copy packets and provide students with materials necessary to complete the packet.
3. Students should complete the project over several days.
4. Preview the activity with your students.
5. Challenge activities can be assigned or optional.
6. Students will complete the self-evaluation reflection rubric.
7. Allow students an opportunity to share their completed projects.



Perfect Party Planners

The students in 3rd grade are having a celebration for the end of the school year. You and your classmates are responsible for planning the event. You will research and decide on food, drinks and activities. Each teacher will offer some unique planning help.

Here are your tasks:

- Read through the entire packet before beginning the activities.
- Work within a budget to purchase food, drinks, paper goods, chairs, and entertainment.
- Create seating arrangements using tables and chairs.
- Plan a schedule for the celebration.
- Choose the best entertainment for your schedule.
- Complete creative word problems.
- Give the extra challenge pages a try. (optional)
- Complete the self-reflection and evaluation rubric.
- HAVE FUN!

Perfect Party Planners

Name: _____

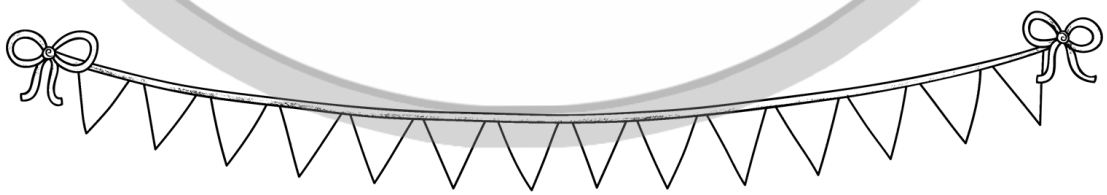
Congratulations! You have made it to the end of the school year.

It is a tradition in your school for the students in grade 3 to plan their own end of the school year celebration. Throughout the year your grade has had various fundraisers to earn money to spend on your celebration. The amount of money in your class budget is $1,000.00. Now that the end of the year is just a few months away, it is time to start planning.

Your must work with your teachers and classmates to plan a party that recognizes everyone's hard work and accomplishments. Students will be responsible for all planning, as well as the set up and clean up on party day. The most important part of your task is to be sure everyone enjoys good food and old-fashioned fun.

Included in the event will be all grade 3 students, 5 teachers and 4 teaching assistants. No parents or siblings will be coming to the party. However, you must plan for the principal and assistant principal to join in the fun. You cannot spend more than the $1,000.00 your grade level earned this year. You will use the money to purchase food, supplies and activities for the big event.

Let's get started!



Perfect Party Planners

Complete the table using the data from the previous page. Then answer the questions.

	Votes for Campfire Fun	Votes for I Scream for Ice Cream	Votes for Lazy Luau	Total Students
Mr. Green's class				
Ms. Butler's class				
Mrs. Bradford's class				
Ms. Clifford's class				
Miss Gardner's class				
Total				

1. What is the difference in number between the theme with the most votes and the one with the fewest votes?

2. What will be the theme for the end of year celebration?

3. How many students are in your grade? Show how you know.

Food Planning

Campfire Fun is the theme for this year's class party. The first thing you need to plan is food. In keeping with a camping theme, the decision is made to have a barbecue and serve hotdogs and hamburgers. Mr. Green used to work for a caterer and tells you it is best to plan for two hotdogs and one hamburger per person.

1. First, let's determine the total number of people attending the party. Show how you know.

2. How many hotdogs and hamburgers do you need to purchase for everyone attending?

   Hotdogs = Hamburgers =

3. Hotdogs are sold in packages of 20. How many packages will you need? Show with a model.

4. If hamburgers are sold in packages of 10, how many packages do you need for the party?

Food Planning

You budgeted $200.00 for rolls. To help you decide which rolls to purchase you must determine the cost for each type of package. Complete the table and circle the least expensive way to purchase each roll.

Hotdog Rolls	10 rolls per pack-$3.00	20 rolls per pack-$5.00
Number of packs needed		
Show the math		
Total Cost		

Hamburger Rolls	10 rolls per pack-$4.00	20 rolls per pack-$9.00
Number of packs needed		
Show the math		
Total Cost		

Budget Break #1

Periodically, you must return to the budget sheet and do your calculations. It is time to enter the cost for meat and rolls.

Purchases	Budgeted cost	Actual cost
Meat	$200.00	
Rolls	$100.00	
Water	$50.00	
Paper Goods	$50.00	
Rented Chairs	$350.00	
Activities	$250.00	
Total	$1,000.00	

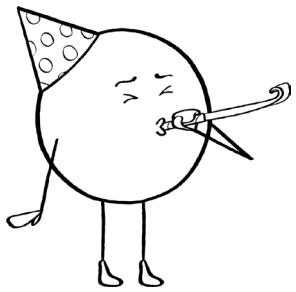
Buying Bottled Water

Miss Gardner is helping you plan for bottled water. She works part-time at Walmart and knows the best deals. She has volunteered to buy the water. She says you should plan for each person to drink three bottles of water at the party. Read and answer the questions below about the bottled water.

1. How many bottles of water should you plan to purchase for the barbeque?

2. Miss Gardner says that there are 30 bottles of water per case. She asked you to determine the number of cases she should pick up at Walmart. Show how you know.

3. The cases of water are on sale this week for 4 dollars. How much money will you give Miss Gardner? Show with an array.



Budget Break #2

Now that you have determined the cost of the water and paper goods, it is time to enter their cost in the budget. First, enter the costs from Budget Break #1 for meat and rolls. Then. enter the costs for water and paper goods.

Purchases	Budgeted cost	Actual cost
Meat	$200.00	
Rolls	$100.00	
Water	$50.00	
Paper Goods	$50.00	
Rented Chairs	$350.00	
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Total	$1,000.00	

Arranging Tables

Your school has rectangular tables that will be set up in the gymnasium. The tables will seat 8 people with no more than 4 on each side. Your teacher has asked you to draw a diagram of the tables and chairs using the graph paper and the key below. You must have one seat for everyone attending the barbeque.

You can seat students on the long sides of each table only. Tables measure 4 squares long. Chairs measure the size of one square. As you arrange your tables, you must leave at least one row of empty spaces between chairs so that people can get in and out without bumping into each other.

Use a pencil to draw your shapes on the grid. Once you are happy with your design, shade the tables and chairs using two different colors.

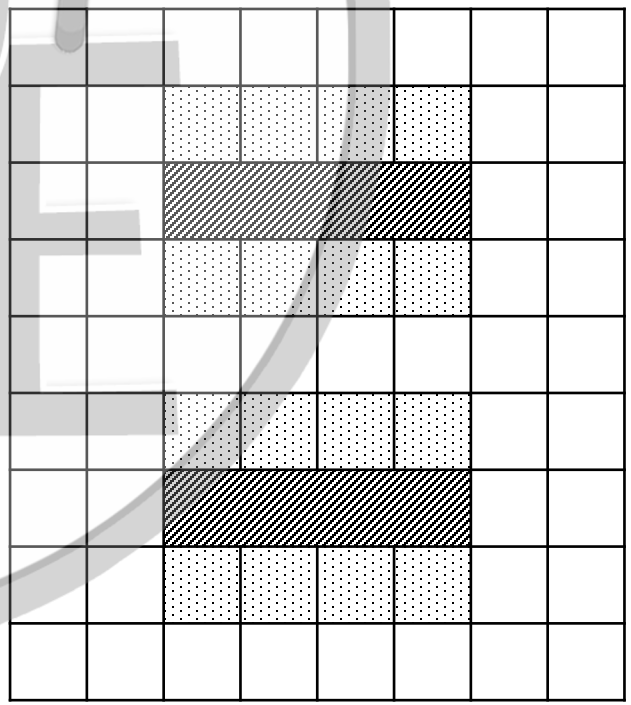
How many tables do you need to set up?

KEY:

= table

= chair

Example



Budget Break #3

Before you can plan for decorations and activities, you must know how much money you have spent so far. Fill in the table with the costs for the meat, rolls, water and paper goods. Then write in your costs to rent the chairs.

Purchases	Budgeted cost	Actual cost
Meat	$200.00	
Rolls	$100.00	
Water	$50.00	
Paper Goods	$50.00	
Rented Chairs	$350.00	
Activities	$250.00	
Total	$1,000.00	

Amazing Amos

Mr. Green has a friend who is a magician. His name is *Amazing Amos*. He is available to come to the celebration to entertain everyone. The table shows the length of time and cost for each show. Review the options to help you decide which show is best for the barbecue.

Amazing Amos			
Show 1	Snakes Alive	30 minutes	$155.00
Show 2	Disappearing Doves	1 hour & 10 minutes	$275.00
Show 3	Seeing is Believing	45 minutes	$240.00

1. Mr. Green says to decide which show is best you must determine the length of time for each one. Amazing Amos will begin at 6:15 p.m. What time will each of his shows end? Show your math on the number lines.

Show 1 

Show 2 

Show 3 

Last Minute Details - Word Problems

1. Your mom works for a food distributor. A week before the barbecue, she tells you that she can donate 4 boxes of individual snack bags. Each box holds 30 bags of each of the following: potato chips, pretzels, and popcorn. Show many bags of snacks will your mom donate? Draw a model to show the math.

2. If everyone gets one snack bag, how many bags will not be used?

Challenge 1 – Relay Races

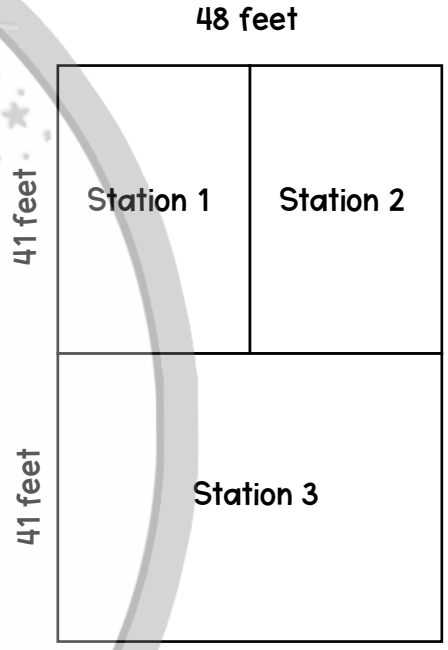
1. On the night of the party, Mr. Green set up relay races for all students. Mr. Green, Miss Gardner and Miss Clifford each joined a team so that there were 4 people on every team. How many teams were there in all?

2. Each team ran a relay around the soccer field. The top 5 teams and the runners' times are listed in the table below. Your task is to determine each teams' total time in seconds. Then, rank the teams in order from 1st through 5th. Calculate the team's total time in the box below the individual scores. Then write the team rank in the bottom box.

The Razors	We Got This	The Cheetahs	Go Dog Do	Track Stars
Elle 23 seconds.	Eric 39 seconds	Amy 24 seconds	Lenny 35 seconds	Lucy 46 seconds
Ray 59 seconds	Jan 24 seconds	Dan 56 seconds	Meg 51 seconds	Will 22 seconds
Mel 48 seconds	Ron 45 seconds	Bria 45 seconds	Jon 53 seconds	Cara 34 seconds
Max 37 seconds	Mia 32 seconds	Nate 27 seconds	Barb 25 seconds	Ken 58 seconds

Challenge 2 – Outside Games-Part 2

In addition to the relay races, Mr. Green organized several outside games and activities for students. He painted lines on the field to divide the space into stations. Station 1 and Station 2 are the same size. Use the diagram to answer the questions about the field.



1. Mr. Green said he found the area of Station 1 by multiplying 41 feet by 24 feet. Why did he use 24 feet?

2. The area of Station 1 is 984 square feet. Mia asked Mr. Green if the area of Station 2 is also 984 square feet. Write Mr. Green's response.

3. Mr. Green wants to use Station 3 for a kickball game. He needs an area of at least 1800 square feet to have enough room for the game. Kiana knows that the area of Station 3 is the same as the area of Stations 1 and 2 combined. Is there enough room for the kickball game? Use addition to solve.

Perfect Party Planners

Name: _____

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 | It was just right | I found this challenging

Perfect Party Planners

Name: ______________________________

Self Reflection Rubric: Select the parts of the rubric that express how you rate yourself on this Project Based Learning Activity. Circle or shade your selections.

+	✓	−
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 understand 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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Not O.K.

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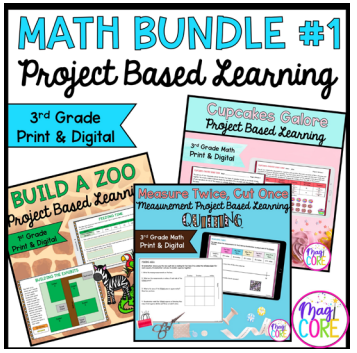

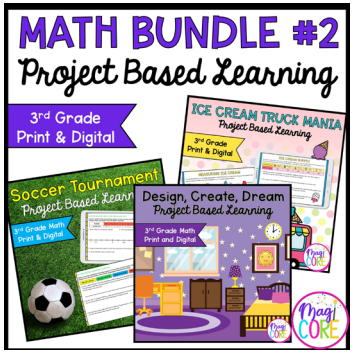

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