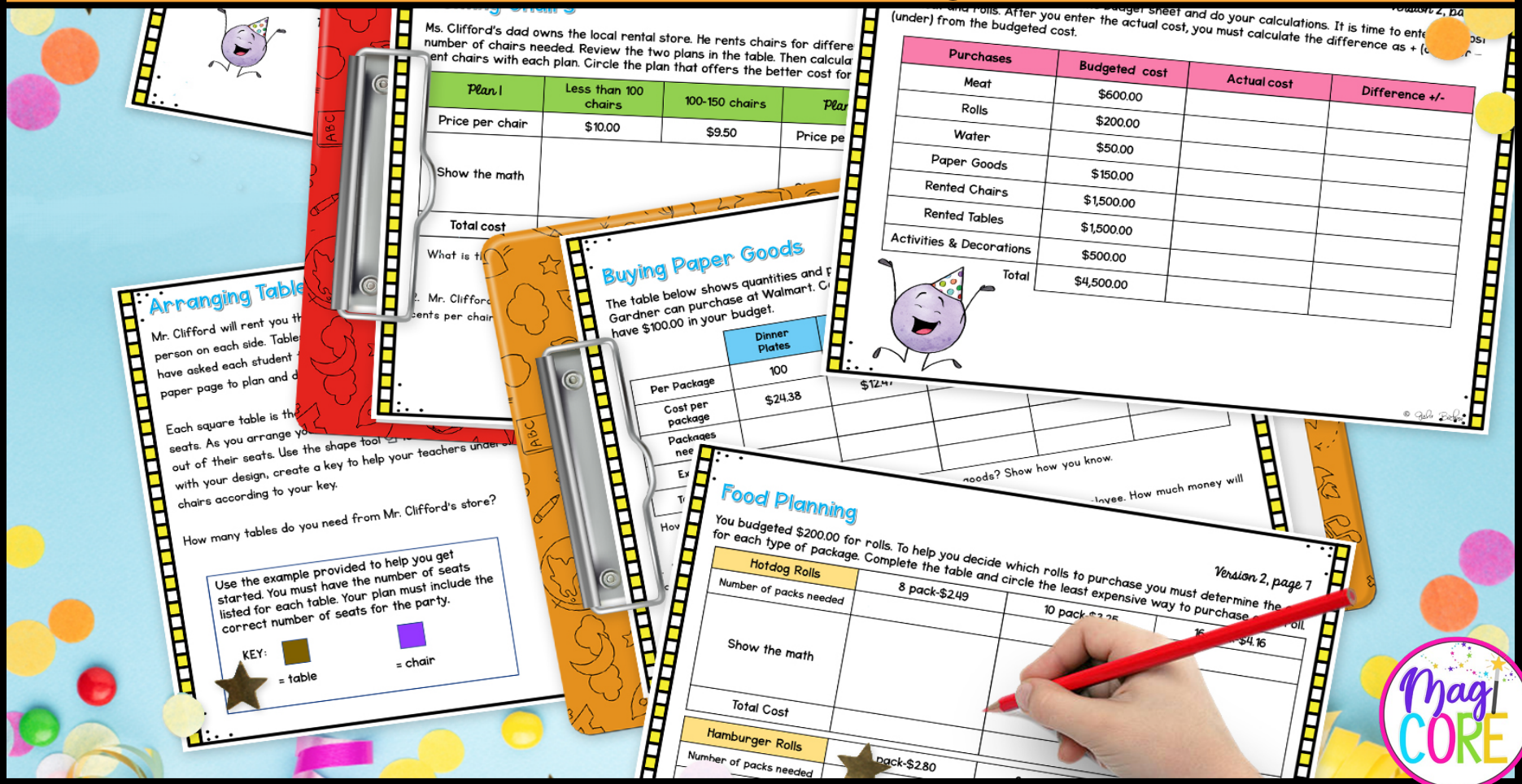
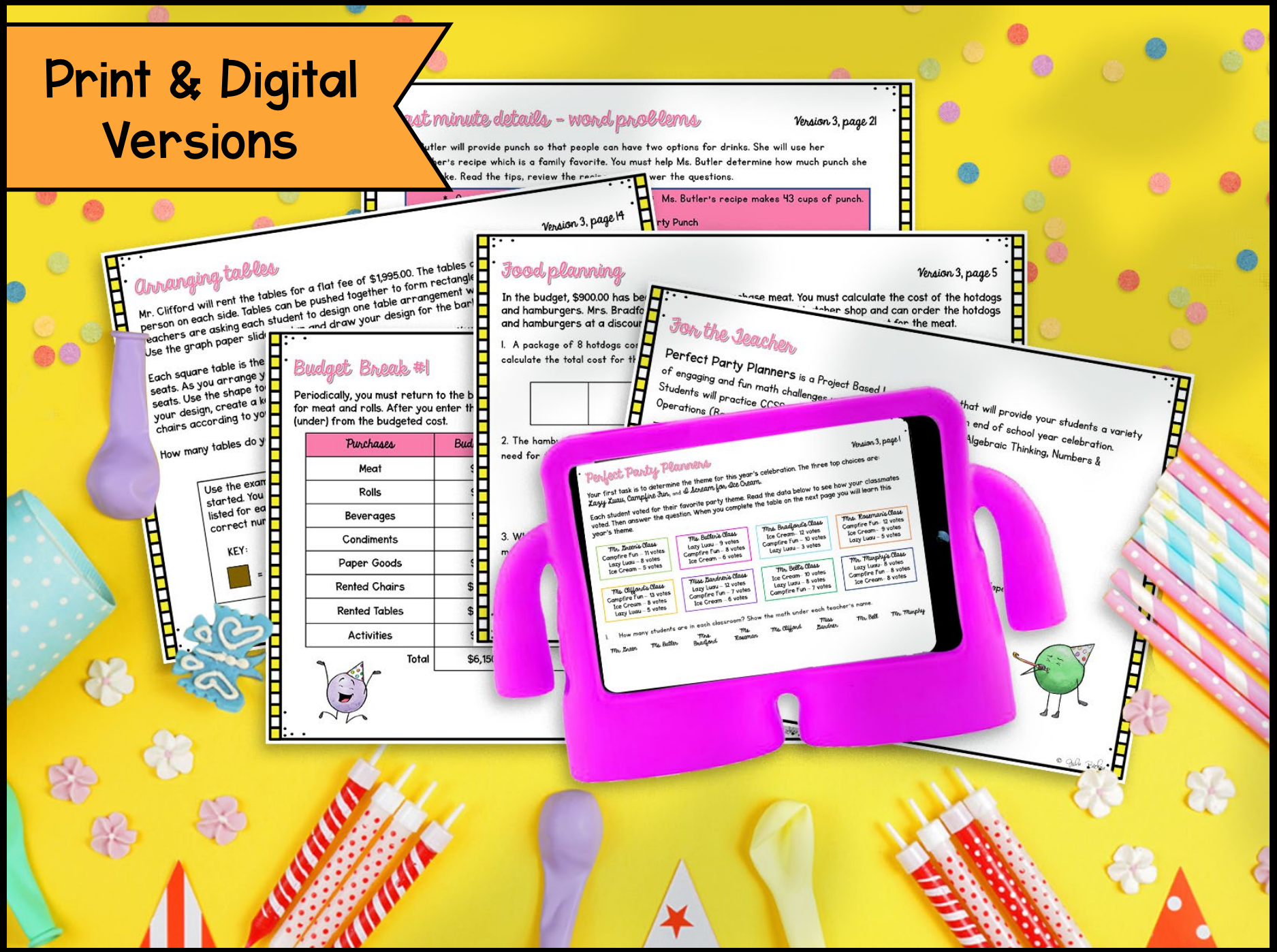
PERFECT PARTY PLANNERS

Project Based Learning

5th Grade Print & Google Slides



Print & Digital Versions



Aligned to Math Standards

Food planning

Version 3, page 4

Campfire Fun is the theme for this year's class party. The first thing you need to plan for is the food. In keeping with a camping theme, the decision is made to have a barbecue and serve hot dogs and hamburgers. Mr. Green used to work for a caterer, and he tells you it is best to plan for 2 hot dogs and 1.5 hamburgers per person.

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

Budget

Review the budget Mr. Murphy has proposed for th
must stay as close to the budget as possible in each

Purchases

Perfect Party Planners

Version 3, page 1

Your first task is to determine the theme for this year's celebration. The th
Lazy Luau, *Campfire Fun*, and *I Scream for Ice Cream*.
Each student voted for their f
voted. Then

choices are:

classmates
earn this

an's Class
12 votes
9 votes
5 votes

's Class
votes
8 votes
votes

Murphy

Arranging tables

Version 3, page 14

Mr. Clifford will rent the tables for a flat fee of $1,995.00. The tables are square and can seat one person on each side. Tables can be pushed together to form rectangles or larger squares. Your teachers are asking each student to design one table arrangement with seating options for the party. Use the graph paper slide to plan and draw your design for the barbecue.

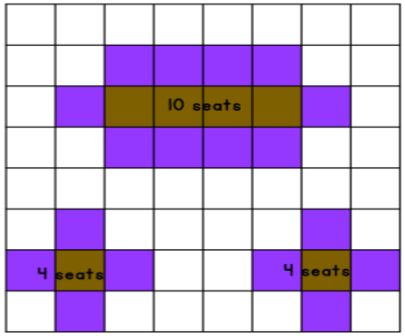
Each square table is the size of one square on the graph paper. You must assign squares to tables and seats. As you arrange your tables, you must leave enough space for people to get in and out of their seats. Use the shape tool to draw and move your shapes around the grid. Once you are happy with your design, create a key to help your teachers understand your plan. Be sure to shade the tables and chairs according to your key.

How many tables do you need from Mr. Clifford's store?

Use the example provided to help you get started. You must have the number of seats listed for each table. Your plan must include the correct number of seats for the party.

KEY:

= table = chair



© Jodi Durfee

Challenge Activities

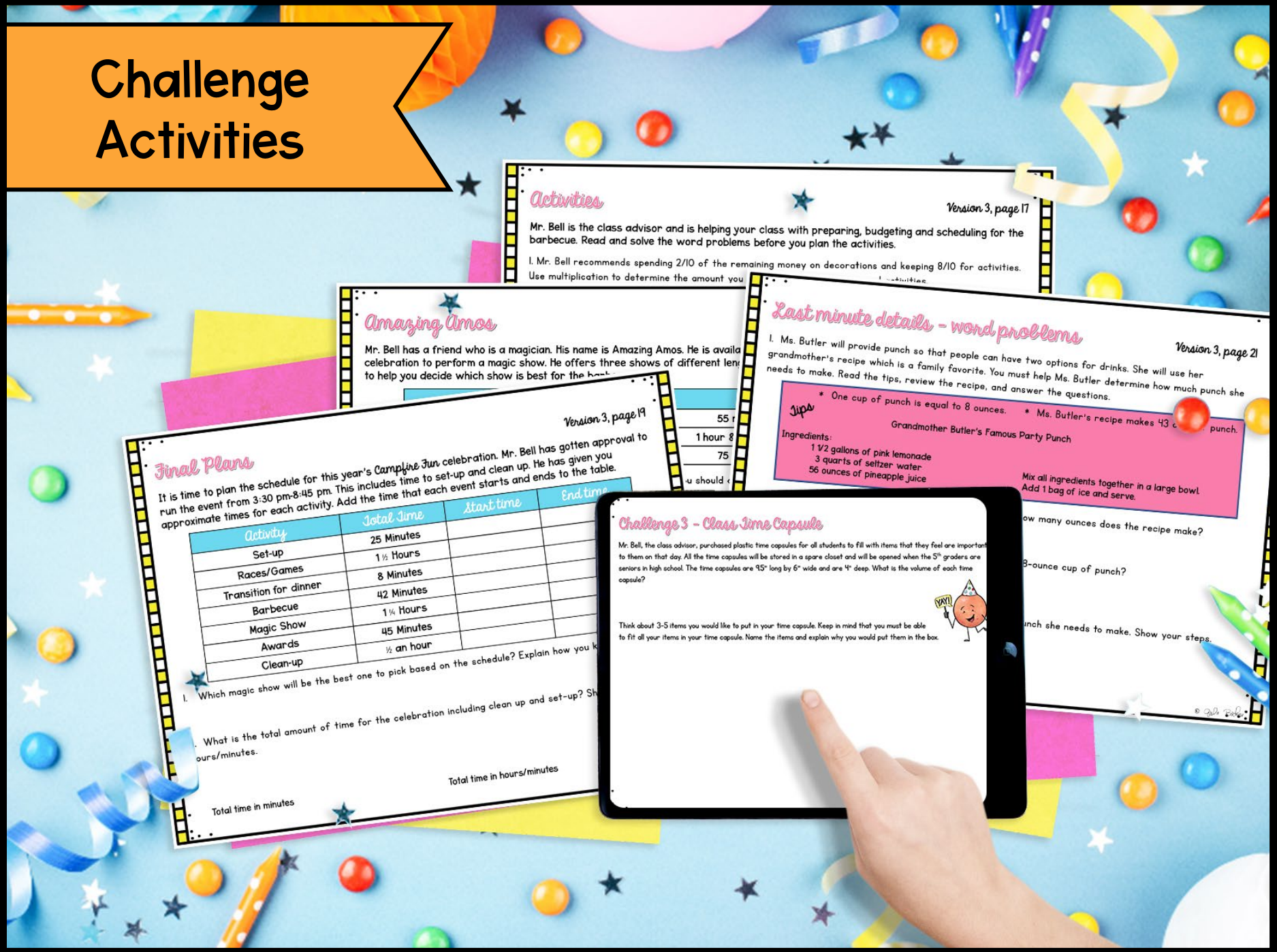
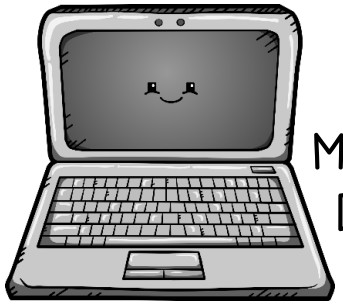


Table of Contents

1. Teacher & student directions
2. Party theme (create a table, evaluate data)
3. Planning for food (addition/subtraction, multiplication/division, decimal comparing problems)
4. Buying bottled water, paper goods and condiments (multiplication/division, & decimal word problems)
5. Renting chairs (decimal/money word problems)
6. Arranging tables and chairs (planning area)
7. Working within a budget
8. Activities (word problems with fractions)
9. Amazing Amos (time word problems)
10. Final plans (time word problems)
11. Last-minute details (measurement word problems)
12. Challenge 1: Relay Races (time word problems)
13. Challenge 2: Outside Games (perimeter/area word problems)
14. Challenge 3: Time Capsule (measurement, volume and problem solving)
15. Evaluation & Rubric



THANK YOU FOR PURCHASING THIS MAGICORE LEARNING DIGITAL RESOURCE!

The Google Slides version of this resource requires that you make a copy of the resource to your own Google Drive.

CLICK HERE TO MAKE A COPY OF THIS RESOURCE TO YOUR GOOGLE DRIVE.

* You MUST have a Google account in order to access this resource. Click HERE if you need help setting up a Google account.

For the Teacher

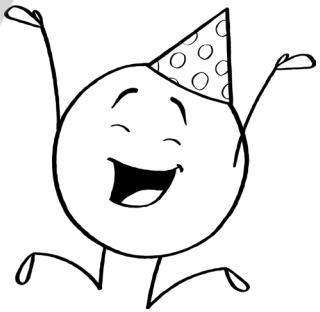
Perfect Party Planners is a Project Based Learning packet that will provide your students a variety of engaging and fun math challenges using the theme of "planning an end of school year celebration".

The following standards are addressed:

- 5.NBT.A.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10
- 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 divisor, using strategies based on place value, properties of operations, and/or relationship between multiplication and division.
- 5.NBT.B.7 Perform all operations with decimals to hundredths, using concrete models, drawings, and strategies based on place value, properties of operations, and/or the relationship between add./sub., relate to a written method and explain reasoning.
- 5.NF.B.4.B Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths.
- 5.NF.B.6 Solve real world problems involving multiplication of fractions and mixed numbers.
- 5.MD.A.1 Convert among different sized standard measurement units within a given measurement system. Use in solving multi-step real world problems.
- 5.MD.B.2 Make a line plot to display a data set of measurements in fractions of a unit. Solve problems involving addition and subtraction of fractions by using information presented in line plots.

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 can be optional.
6. Students will complete the self-evaluation reflection rubric.
7. Allow students an opportunity to share their completed projects.



© Julie Bochese

Perfect Party Planners

The students in 5th 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 tables, chairs, drinks, food 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!

© Julie Bochorse

Perfect Party Planners

Name: _____

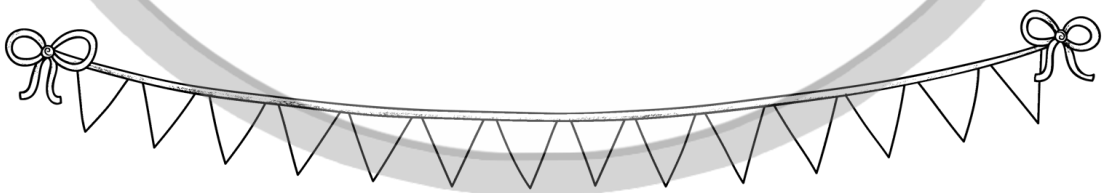
Congratulations! You have made it to the end of the school year.

It is a tradition in your school for the students in grade 5 to plan their own end of the school year celebration. Throughout the year your grade has had several fund raisers to earn money to spend on your celebration. The amount of money in your class budget is $6,150.00 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 the 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 5 students, their 8 teachers and 7 teaching assistants. No parents or siblings will be coming to the party. However, you must plan for the principal and assistant principal to join the celebration. You cannot spend more than the $6,150.00 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!



© Julie Bachuse

Perfect Party Planners

Your first task is to determine the theme for this year's celebration. The three top choices are: **Lazy Luau**, **Campfire Fun**, and **I Scream for Ice Cream**.

Each student voted for their favorite party theme. Read the data below to see how your classmates voted. Then answer the question. When you complete the table on the next page you will learn this year's theme.

Mr. Green's Class	Ms. Butler's Class	Mrs. Bradford's Class	Mrs. Roseman's Class
Campfire Fun – 11 votes	Lazy Luau – 9 votes	Ice Cream– 12 votes	Campfire Fun– 12 votes
Lazy Luau – 8 votes	Campfire Fun – 8 votes	Campfire Fun – 10 votes	Ice Cream– 9 votes
Ice Cream – 5 votes	Ice Cream – 6 votes	Lazy Luau – 3 votes	Lazy Luau – 5 votes

Ms. Clifford's Class	Miss Gardner's Class	Mr. Bell's Class	Mr. Murphy's Class
Campfire Fun – 13 votes	Lazy Luau – 12 votes	Ice Cream– 10 votes	Lazy Luau– 8 votes
Ice Cream – 8 votes	Campfire Fun – 7 votes	Lazy Luau – 8 votes	Campfire Fun – 8 votes
Lazy Luau – 5 votes	Ice Cream – 6 votes	Campfire Fun – 7 votes	Ice Cream– 8 votes

1. How many students are in each classroom? Show the math under each teacher's name.

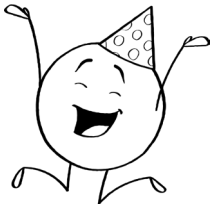
Mr. Green | Ms. Butler | Mrs. Bradford | Ms. Roseman | Ms. Clifford | Miss Gardner | Mr. Bell | Mr. Murphy

© Julie Bochorse

Budget

Review the budget Mr. Murphy has proposed for the party. The total you can spend is $6,150.00. You must stay as close to the budget as possible in each category listed in the table.

Purchases	Budgeted cost
Meat	$900.00
Rolls	$375.00
Beverages	$125.00
Condiments	$85.00
Paper Goods	$250.00
Rented Chairs	$1,850.00
Rented Tables	$2,015.00
Activities	$550.00
Total	$6,150.00



© Julie Bochorse

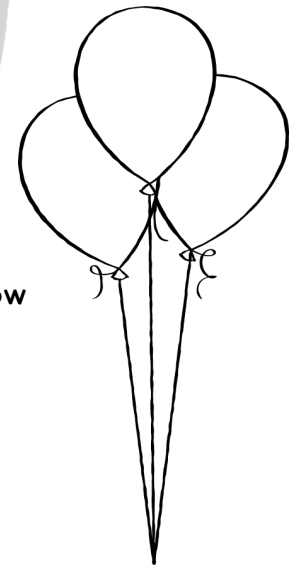
Food planning

In the budget, $900.00 has been set aside to purchase meat. You must calculate the cost of the hotdogs and hamburgers. Mrs. Bradford's husband works at the local butcher shop and can order the hotdogs and hamburgers at a discount. Answer the questions below to find the total cost for the meat.

1. A package of 8 hotdogs costs $9.00. Consider the number of packages you need for the party and calculate the total cost for the hotdogs. Use an area model to solve.

2. The hamburgers come in packages of 10 and cost $12.76 each. Consider the number of packages you will need for the party. How much it will cost for the hamburgers?

3. What is the total cost for meat? Have you stayed within your $900.00 budget? If not, how much more money did you spend?



© Julie Bachuse

Food planning

You budgeted $375.00 for rolls. To help you decide which rolls to purchase you must determine the cost for each package. Complete the table and circle the least expensive way to purchase each type of roll.

Hotdog Rolls	8 pack-$3.49	10 pack-$4.25	20 pack-$8.96
Number of packs needed			
Show the math			
Total Cost			

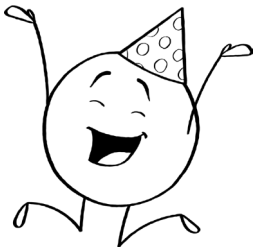
Hamburger Rolls	5 pack-$3.80	10 pack-$6.97	15 pack-8.13
Number of packs needed			
Show the math			
Total Cost			

© Julie Bochorse

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. After you enter the actual cost, you must calculate the difference as + (over) or – (under) from the budgeted cost.

Purchases	Budgeted cost	Actual cost	Difference +/-
Meat	$900.00		
Rolls	$375.00		
Beverages	$125.00		
Condiments	$85.00		
Paper Goods	$250.00		
Rented Chairs	$1,850.00		
Rented Tables	$2,015.00		
Activities	$550.00		
Total	$6,150.00		



© Julie Bochorse

Condiments

Mr. Murphy has large pump dispensers he will fill with condiments for the barbecue. Each dispenser can hold a ½ gallon of mustard or ketchup. Read and answer the questions about the condiments.

1. The ketchup comes in quart-sized bottles. How many bottles will the dispenser hold at one time? Explain.

2. Mr. Murphy suggests that you buy 8 bottles of ketchup. Each bottle costs $6.25. However, if you purchase 6 bottles, you get one free. How much money will it cost to purchase ketchup? Show how you know.

3. The mustard bottles are 16 ounces each and cost $3.55. Mr. Murphy thinks you will need 1 ½ times as many bottles of mustard as ketchup. How many bottles will you buy? Show how you know.

4. Determine the cost for the mustard. What is the difference in cost between the ketchup and mustard?

5. Mr. Murphy asks you to determine how many bottles of mustard will fit into the dispenser.

© Julie Bochorse

Budget Break #2

Now that you have determined the cost of the water, condiments and paper goods, it is time to enter their costs in the budget. First, enter the costs from Budget Break #1 for meat and rolls. Then. enter the costs for water, condiments and paper goods. Don't forget to calculate the differences, +/-.

Purchases	Budgeted cost	Actual cost	Difference +/ -
Meat	$900.00		
Rolls	$375.00		
Beverages	$125.00		
Condiments	$85.00		
Paper Goods	$250.00		
Rented Chairs	$1,850.00		
Rented Tables	$2,015.00		
Activities	$550.00		
Total	$6,150.00		

© Julie Bochorse

Arranging tables

Mr. Clifford will rent the tables for a flat fee of $1,995.00. The tables are square and can seat one person on each side. Tables can be pushed together to form rectangles or larger squares. Your teachers are asking each student to design one table arrangement with seating options for the party. Use the graph paper pages to plan and draw your design for the barbecue. Tape two pages together for more space if necessary.

Each square table is the size of one square on the graph paper. You must assign squares to tables and seats. As you arrange your tables, you must leave enough space for people to get in and out of their seats. Use a pencil to draw your shapes on the grid. Once you are happy with your design, create a key to help your teachers understand your plan. Be sure to shade the tables and chairs according to your key.

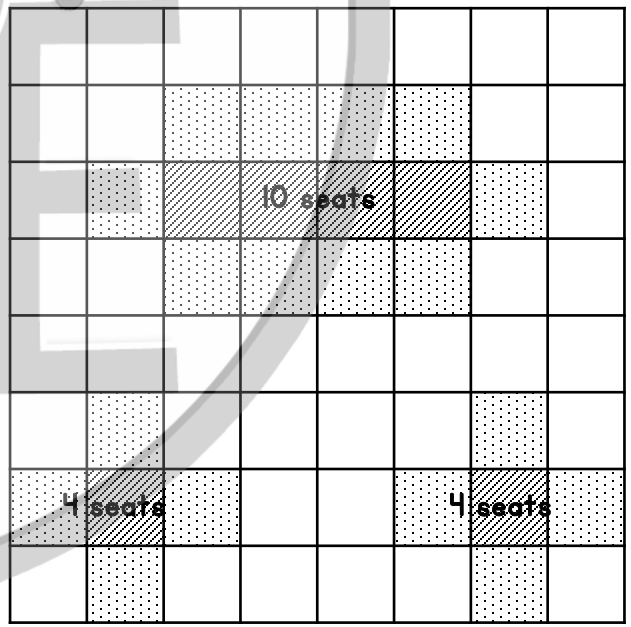
How many tables do you need from Mr. Clifford's store?

Use the example provided to help you get started. You must have the number of seats listed for each table. Your plan must include the correct number of seats for the party.

KEY:

= table

= chair



© Julie Bachose

Budget Break #3

Before you can plan for activities, you must know how much money you have spent so far. Fill in the table with the costs for the meat, rolls, water, condiments and paper goods. Then write in the costs to rent the chairs and tables. Find the total and the +/- for the budgeted costs.

Purchases	Budgeted cost	Actual cost	Difference +/-
Meat	$900.00		
Rolls	$375.00		
Beverages	$125.00		
Condiments	$85.00		
Paper Goods	$250.00		
Rented Chairs	$1,850.00		
Rented tables	$2,015.00		
Activities	$550.00		
Total	$6,150.00		

1. The budgeted cost for activities is $550.00. What is the actual amount you can spend?

© Julie Bochorse

Amazing Amos

Mr. Bell has a friend who is a magician. His name is Amazing Amos. He is available to come to the celebration to perform a magic show. He offers three shows of different lengths. Review the options to help you decide which show is best for the barbecue.

Amazing Amos		
Show 1	Snakes Alive	55 minutes
Show 2	Disappearing Doves	1 hour & 20 minutes
Show 3	Seeing is Believing	75 minutes

1. Mr. Bell suggests that before you decide which show to schedule, you should consider the time for each magic show. The celebrations must be cleaned up by 8:45 p.m. If Amazing Amos begins at 6:15 p.m., what time will each of his shows end? Show on the number lines.

Show 1

Show 2

Show 3

© Julie Bochorse

Final Plans

It is time to plan the schedule for this year's *Campfire Fun* celebration. Mr. Bell has gotten approval to run the event from 3:30 pm-8:45 pm. This includes time to set-up and clean up. He has given you approximate times for each activity. Add the time that each event starts and ends to the table.

Activity	Total Time	Start time	End time
Set-up	25 Minutes		
Races/Games	1 ½ Hours		
Transition for dinner	8 Minutes		
Barbecue	42 Minutes		
Magic Show	1 ¼ Hours		
Awards	45 Minutes		
Clean-up	½ an hour		

1. Which magic show will be the best one to pick based on the schedule? Explain how you know.

2. What is the total amount of time for the celebration including clean up and set-up? Show in minutes and hours/minutes.

Total time in minutes:

Total time in hours/minutes:

© Julie Bachuse

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 5 boxes of individual snack bags. One box holds a variety of snacks like potato chips, pretzels, and popcorn. Each box holds 87 bags of snacks. How many individual snack bags will each person get? Show the math.

2. Will there be any bags left over? If so, how many?

3. Martin's dad owns a Dairy Queen and offers to set up a Blizzard station. Each Blizzard needs 1 1/2 cups of ice cream and 2/5 of a cup of crushed cookies. Help Martin calculate the amount of ice cream and crushed cookies his dad should bring to the party for everyone to have one Blizzard.

Amount of ice cream needed	Amount of of crushed cookies needed

© Julie Bachuse

Challenge 1 - Relay Races

1. On the night of the party, Mr. Green set up relay races for all students. He created teams of 6 students each. Counting just students, how many teams were there in all?

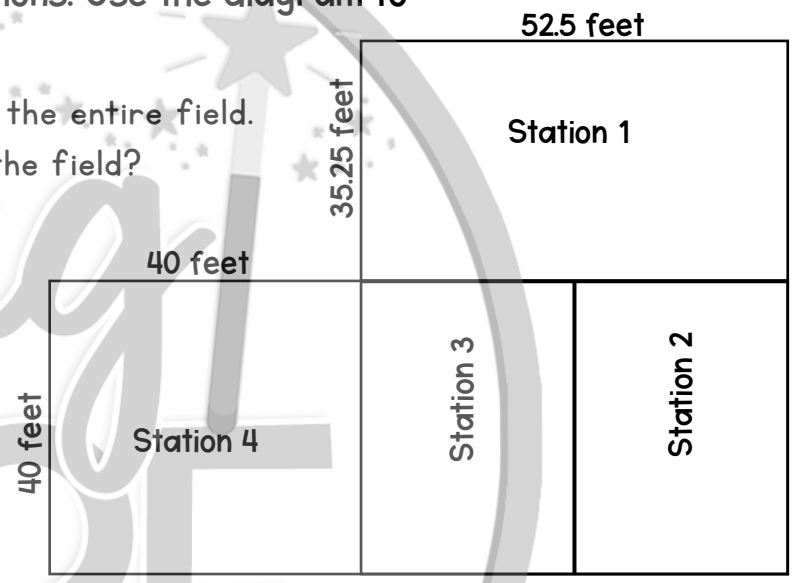
2. Each team ran a relay around the soccer field. The top 5 teams and the runners' times are listed in the table below. Your task is to determine each team's total time in minutes/seconds. Then, rank the teams in order from 1st through 5th. Calculate the team's total time in the box below the individual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

The Razors	We Got This	The Cheetahs	Go Dog Go	Track Stars
Elle 2 min. 23 sec.	Eric 2 min. 9 sec.	Amy 2 min. 4 sec.	Lenny 2 min. 35 sec.	Lucy 1 min. 46 sec.
Ray 1 min. 59 sec.	Jan 2 min. 24 sec.	Dan 1 min. 56 sec.	Meg 1 min. 51 sec.	Will 1 min. 52 sec.
Mel 2 min. 18 sec.	Ron 1 min. 48 sec.	Bria 2 min. 15 sec.	Jon 1 min. 53 sec.	Cara 2 min. 44 sec.
Max 2 min. 7 sec.	Mia 2 min. 12 sec.	Nate 2 min. 27 sec.	Barb 2 min. 15 sec.	Ken 1 min. 58 sec.
Kim 1 min. 51 sec.	Joe 2 min. 2 sec.	Jill 1 min. 49 sec.	Norm 2 min. 29 sec.	Belle 2 min. 37 sec.
Raul 2 min. 14 sec.	Kiana 1 min. 58 sec.	Tyler 2 min. 16 sec.	Aly 2 min. 30 sec.	Nick 2 min. 24 sec.

© Julie Bochorse

Challenge 2 - Outside games, part I

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. Use the diagram to answer the questions about the field.



1. Mr. Green asked for help to determine the perimeter of the entire field. How would you explain the steps to find the perimeter of the field?

2. What is the perimeter of the entire field?

3. Stations 2 and 3 have the same dimensions. Determine the perimeter of Station 2.

© Julie Bachuse

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

© Julie Bachuse

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.

© Julie Bochorse

Terms of Use

How Can I Use This Resource?

Thank you for trusting MagiCore. Our mission is to create resources that support teachers and promote student success. Please note that this resource is licensed for use by a single teacher in a classroom setting. If you need to use this resource with more than one teacher and/or across multiple classrooms, additional licenses are available at a discount. You can purchase additional licenses by visiting your TPT "Purchases" page and then selecting "Download Additional Licenses" or by contacting me at julie@magicorelearning.com.

Good to Go

- Use this resource personally or with your own children
- Use this resource in your own classroom with your students.
- Provide this resource to your students to use at your instruction.
- Print and/or copy for use in your own classroom.
- Provide printed pages to a substitute teacher with the sole purpose of instructing your students.
- Share with your students via a secure document portal or electronic learning platform that requires individual user verification and limits access to only the students in your own classroom (e.g. Google Classroom)
- Review this resource with others with the sole purpose of recommending it to others for purchase, provided you share one of the links below:

  https://magicorelearning.com/

  https://www.teacherspayteachers.com/Store/Magicore

Not O.K.

- Share with others to use personally.
- Share with others to use in another classroom.
- Print or copy any page(s) and distribute them to other teachers or other classrooms.
- Publish or host online in a manner where any of the material is accessible to anyone who is not a student in your own classroom., including but not limited to personal, classroom, or district websites that are accessible to the general public.
- Use this resource commercially (e.g. Outschool).
- Publish, sell, or otherwise distribute this product to anyone in manner inconsistent with these terms of use.

© Copyright 2021, 2022. All rights reserved. The unlicensed reproduction or distribution of this product is strictly prohibited. Permission is granted to the original purchaser or licensee to make copies to use with students and/or to assign to students digitally providing it is only available to students assigned directly to the purchaser. Placing this product in any manner that makes it accessible to the general public is strictly forbidden. Commercial use, including but not limited to online or in person classes, is prohibited. Contact julie@magicorelearning.com for commercial licensing information. Sharing without permission or hosting online in a public manner is a violation of the Digital Millennium Copyright Act (DMCA). These terms may be updated at any time. You can see the most up to date Terms of Use at https://magicorelearning.com/terms-of-use.

Let's Connect!

www.magicorelearning.com

https://www.teacherspayteachers.com/Store/magicore

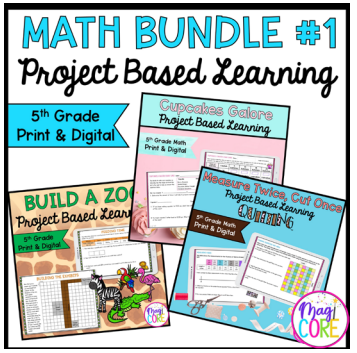
https://www.facebook.com/MagiCoreLearning

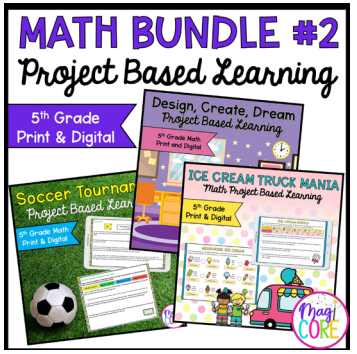
https://www.instagram.com/magicorelearning

https://www.pinterest.com/magicorelearning/_shop/

Julie@magicorelearning.com

Looking for more?





Membership Opportunity!

If you love these resources and want access to more, check out my membership opportunity with the MagiCore Club.

[Join my MagiCore Club waitlist!]

MagiCore Club opens its membership doors twice a year to offer teachers all of the resources you love, with a membership discount. You can also find support through my custom learning plan.

Find out more https://magicorelearning.com/membership

CREDITS