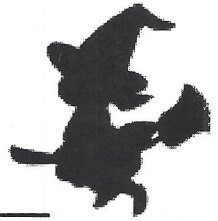


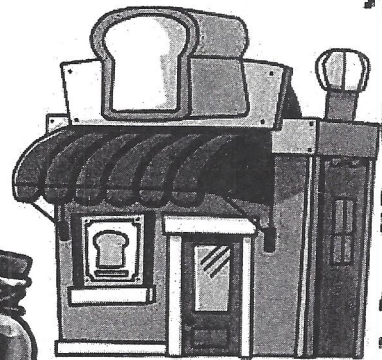
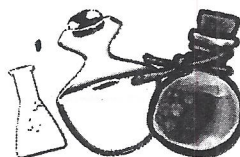
NAME: \_\_\_\_\_



# Math Project



# My Magical Bakery



## Math Project: My Magical Bakery

# Level 1: Bakery Set Up

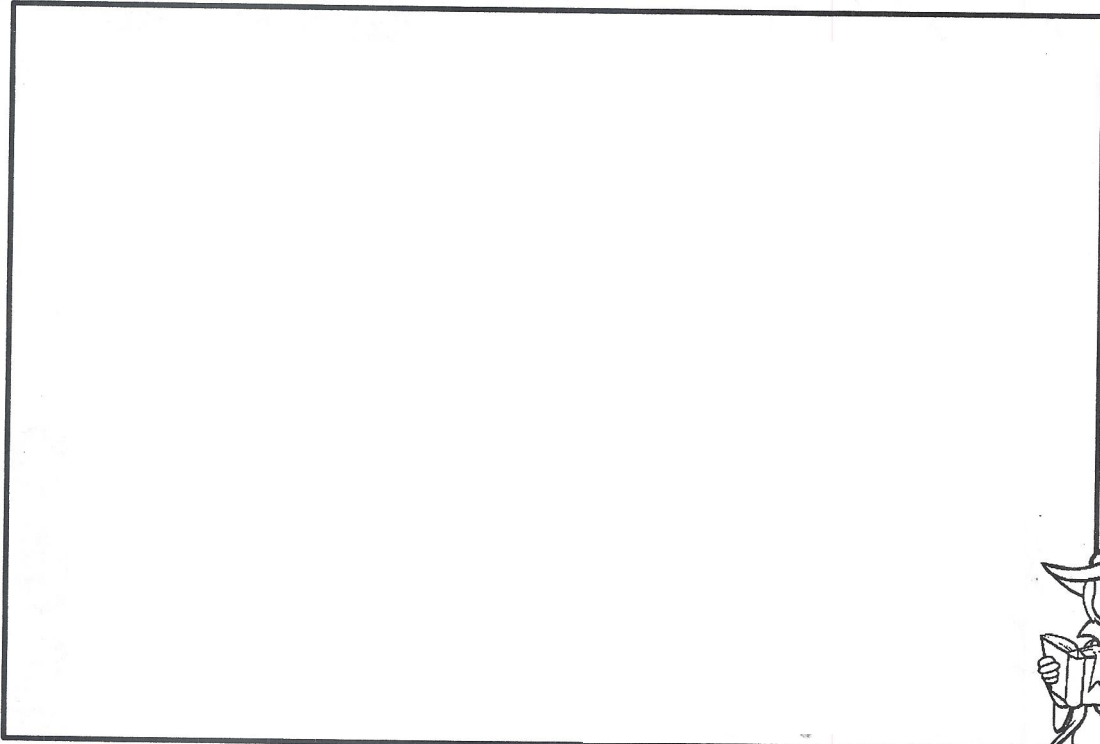
Larry the Wizard has appointed you the task to set up and run a Magical Bakery for the city of Mathhattan! Your bakery will be no ordinary bakery; it will be selling cakes, muffins, donuts, bread and cookies that will have some interesting side effects if eaten! As executive of the bakery, you will be assigned a number of tasks to complete in the levels of this project. You must complete all tasks before proceeding to the next level. Read all instructions carefully and keep your work neat. Good Luck!

### Task 1:

Think of a name and logo for your Magical Bakery. Write and draw these in the space below.!

My Magical Bakery Name: \_\_\_\_\_

Logo →



## Math Project: My Magical Bakery



# Level 1: Bakery Set Up

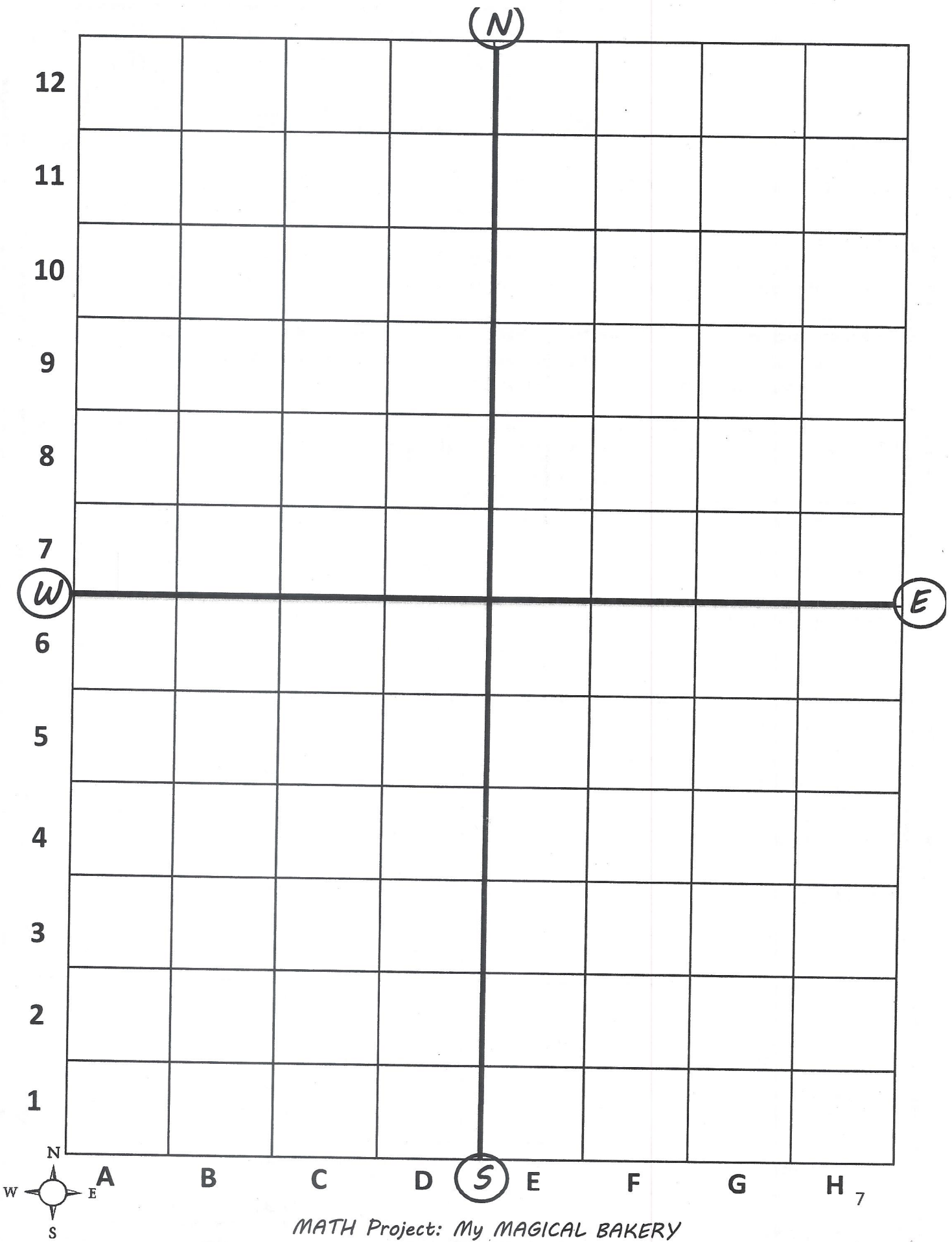
### Task 2:

It's time to set up your bakery. Listed in the table below are the equipment and fittings Larry the Wizard has given you to start up your Magical Bakery. You will need to:

- Place these on the grid map provided on the following page.
- Pay attention to the area size of each item (1 grid square on the map = 1 square unit).
- Read and follow where the item needs to be drawn. There is a compass on the bottom left hand side of your map as well as markings to help you with direction.
- Label and color each item on your map!

Item	Area (Square Units)	Where?
Work Tables X 2	3 each	Both must somewhere north of the bakery.
The Customer Counter	4	Somewhere south of the bakery.
The Display Cabinet	6	Must be near the customer counter.
Stove	2	Anywhere on the western side.
Ovens (3 ovens side by side)	3	Must be no farther than 4 square units from your work tables.
Ingredient Storage Cupboard	4	Anywhere in the north eastern section of the bakery.
Refrigerator	5	Anywhere on the eastern side of the bakery.
Cauldron	4	Must be at least 3 square units away from your stove.
Dishwasher and Sink	2	Must be close to your work tables.
Potion Rack	5	Must be no farther than 6 square units from your cauldron.
Packaging Station	4	Anywhere in the bakery
Alchemy Station	8	Must be close to the potion rack.
Decorating Station	3	Anywhere in the south western region.

Level 1 Complete



MATH Project: My MAGICAL BAKERY

## Math Project: My Magical Bakery

# Level 2: Making Potions

Adding your own special potions to your bakery items can add some super (or not so great) side effects!

Using the shelf of magical ingredients below, you must create four different potions that you will use when baking in later levels. Each ingredient vial contains 800mL of liquid. Each time you add an ingredient to a potion recipe, you must subtract the amount that is required in the recipe from the amount on the shelf. Once you have used all 800mL of an ingredient, you cannot use that ingredient any more.



**Snazberry  
Juice**

800mL



**Nightshade  
Oil**

800mL



**Purple Mountain  
Water**

800mL



**Witch's  
Phlegm**

800mL



**Crocodile  
Tears**

800mL



**Spider  
Venom**

800mL



**Stink  
Sauce**

800mL



**Viper  
Blood**

800mL



**Dragon Spit**

800mL



**Dwarf  
Sweat**

800mL

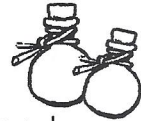
There are some **rules that you must follow** when making your potions, otherwise there could be some negative results!

### Potion Making Rules

- Each vial must be filled to exactly 300mL!
- You must use at least three different ingredients, but no more than six.
- You cannot use the same amount of any ingredient in a recipe.
- You must clearly write how much of each ingredient is needed.
- Clearly label and state what each potion is and does.
- No two recipes can be the same!

Use the templates on the following pages to make your eight potions.

Math Project: My Magical Bakery  
**Level 2: Making Potions**



**Task 1:**

Use the potion templates provided below and on the following page to create your magical potions. Make sure that you follow the potion rules!

Potion Name: \_\_\_\_\_

What does this potion do?  
 \_\_\_\_\_

Ingredient	Amount Needed (mL)

Total Capacity: \_\_\_\_\_ mL

Potion Name: \_\_\_\_\_

What does this potion do?  
 \_\_\_\_\_

Ingredient	Amount Needed (mL)

Total Capacity: \_\_\_\_\_ mL

Potion Name: \_\_\_\_\_

Potion Type: \_\_\_\_\_

What does this potion do?  
 \_\_\_\_\_

Ingredient	Amount Needed (mL)

Total Capacity: \_\_\_\_\_ mL

Potion Name: \_\_\_\_\_

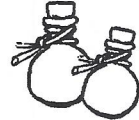
Potion Type: \_\_\_\_\_

What does this potion do?  
 \_\_\_\_\_

Ingredient	Amount Needed (mL)

Total Capacity: \_\_\_\_\_ mL

Math Project: My Magical Bakery  
**Level 2: Making Potions**



Continue to make another four potions in the templates below.

Potion Name: \_\_\_\_\_

What does this potion do?  
 \_\_\_\_\_

Ingredient	Amount Needed (mL)

Total Capacity: \_\_\_\_\_ mL

Potion Name: \_\_\_\_\_

What does this potion do?  
 \_\_\_\_\_

Ingredient	Amount Needed (mL)

Total Capacity: \_\_\_\_\_ mL

Potion Name: \_\_\_\_\_

Potion Type: \_\_\_\_\_

What does this potion do?  
 \_\_\_\_\_

Ingredient	Amount Needed (mL)

Total Capacity: \_\_\_\_\_ mL

Potion Name: \_\_\_\_\_

Potion Type: \_\_\_\_\_

What does this potion do?  
 \_\_\_\_\_

Ingredient	Amount Needed (mL)

Total Capacity: \_\_\_\_\_ mL

## Task 2:

Answer the following questions about the potions you just created:

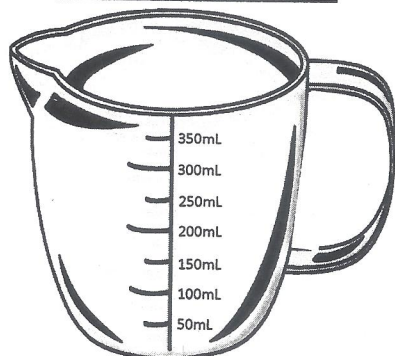
- Which ingredient did you use the most of over your four recipes?  
 \_\_\_\_\_ How much did you use in total? \_\_\_\_\_
- Did you use all of any ingredient on the shelf? If so which one/s?  
 \_\_\_\_\_
- Which potion/s requires the most number of different ingredients?  
 \_\_\_\_\_
- Below, write how much of ingredient you have left after making your eight potions:

Snazberry Juice	Nightshade Oil	Purple Mountain Water	Witch's Phlegm	Crocodile Tears
_____	_____	_____	_____	_____
Spider Venom	Stink Sauce	Viper Blood	Dragon Spit	Dwarf Sweat
_____	_____	_____	_____	_____

## Task 3:

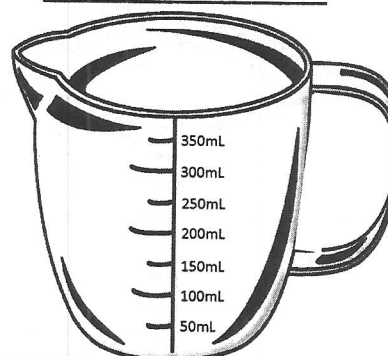
Fill each of the measuring jugs below and on the next page for each potion that you created in Task 1 of this level. Use a different color to show how much of each ingredient is used in each potion. Write underneath each measuring jug what ingredient each color represents. Remember that the total capacity of each potion must be equal to 300mL!

Potion : \_\_\_\_\_



**Ingredient Color Key:**

Potion : \_\_\_\_\_

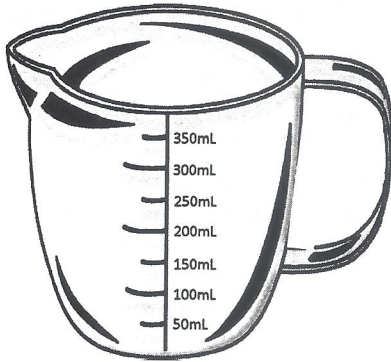


**Ingredient Color Key:**



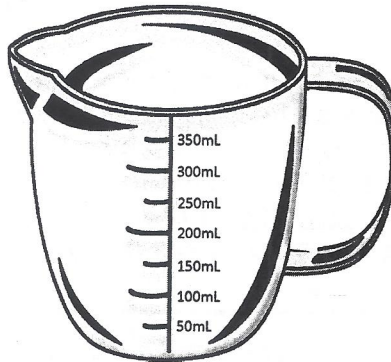
*Math Project: My Magical Bakery*

Potion : \_\_\_\_\_



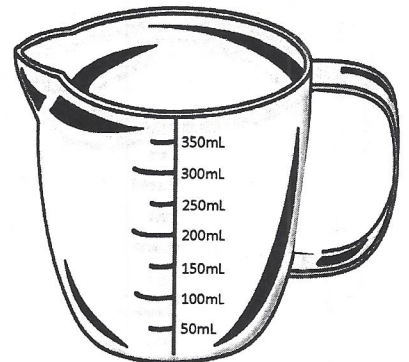
**Ingredient Color Key:**

Potion : \_\_\_\_\_



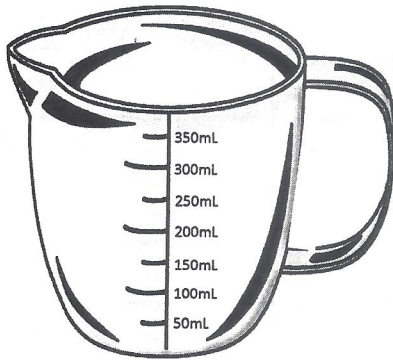
**Ingredient Color Key:**

Potion : \_\_\_\_\_



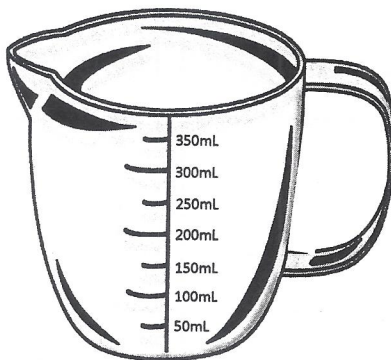
**Ingredient Color Key:**

Potion : \_\_\_\_\_



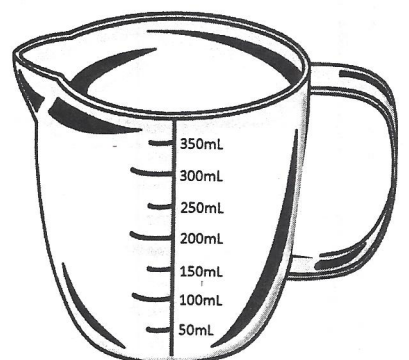
**Ingredient Color Key:**

Potion : \_\_\_\_\_



**Ingredient Color Key:**

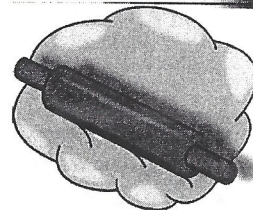
Potion : \_\_\_\_\_



**Ingredient Color Key:**

Level 2 Complete





# Task 1:

## Level 3: Baking Magic

Now it's time to start baking some items for your Magical Bakery! To make them, complete the recipe card templates. Use any of the ingredients listed in the ingredient storage cupboard box below to fill in the blanks. If a blank space is asking for a potion, select one of the eight potions that you created in Level 2 to use in that item. (You will be creating 3 types of cakes, 2 types of muffins, 2 types of breads, 2 types of donuts and 2 types of cookies.) Answer the questions underneath each recipe card before going on to the next recipe card.

### Ingredient Cupboard

- |                        |                 |                    |
|------------------------|-----------------|--------------------|
| • Flour                | • Baking Powder | • Coconut Milk     |
| • Melted Butter        | • Melted Milk   | • Golden Syrup     |
| • Whisked Eggs         | • Chocolate     | • Plum Jam         |
| • Sugar                | • Milk          | • Chopped Cherries |
| • Spices               | • Apple Juice   | • Oats             |
| • Vanilla              | • Lemon Juice   | • Mashed Banana    |
| • Mint                 | • Orange Juice  | • Blueberries      |
| • Chopped Strawberries | • Jellybeans    | • Raspberries      |
| • Honey                | • Salt          | • Peanuts          |
| • Cocoa Powder         | • Pepper        | • Cornflour        |
|                        | • Cream         | • Apricot Jam      |



### Ingredient Recipe Cards

CAKE 1 Name: \_\_\_\_\_

$2\frac{1}{2}$  Cups of \_\_\_\_\_

$\frac{1}{3}$  Cup of \_\_\_\_\_

$1\frac{1}{4}$  Cup of \_\_\_\_\_

$4\frac{1}{2}$  Cups of \_\_\_\_\_

$\frac{3}{4}$  Cup of \_\_\_\_\_

$\frac{1}{8}$  Cup of Potion - \_\_\_\_\_

Which ingredient do you need the most of?  
\_\_\_\_\_

CAKE 2 Name: \_\_\_\_\_

$1\frac{1}{3}$  Cup of \_\_\_\_\_

$\frac{3}{4}$  Cup of \_\_\_\_\_

$3\frac{1}{2}$  Cups of \_\_\_\_\_

$6\frac{2}{3}$  Cups of \_\_\_\_\_

$\frac{1}{2}$  Cup of \_\_\_\_\_

$\frac{1}{8}$  Cup of Potion - \_\_\_\_\_

Which ingredient do you need the least of?  
\_\_\_\_\_

Math Project: My Magical Bakery

**CAKE 3 Name:** \_\_\_\_\_

$1\frac{1}{2}$  Cups of \_\_\_\_\_

$\frac{1}{3}$  Cup of \_\_\_\_\_

$1\frac{1}{3}$  Cup of \_\_\_\_\_

$3\frac{1}{2}$  Cups of \_\_\_\_\_

$\frac{1}{4}$  Cup of \_\_\_\_\_

$\frac{1}{4}$  Cup of Potion - \_\_\_\_\_

How many cups would the last two ingredients be altogether?  
\_\_\_\_\_

**MUFFIN 1 Name:** \_\_\_\_\_

1 Cup of \_\_\_\_\_

$\frac{1}{4}$  Cup of \_\_\_\_\_

$\frac{3}{4}$  Cups of \_\_\_\_\_

$\frac{1}{4}$  Cups of \_\_\_\_\_

$\frac{1}{2}$  Cup of Potion - \_\_\_\_\_

How many cups of sweet ingredients are needed in this recipe altogether? (Place a tick next to all of the ingredients that you think would taste sweet, then add them up).  
\_\_\_\_\_

**MUFFIN 2 Name:** \_\_\_\_\_

$1\frac{2}{3}$  Cups of \_\_\_\_\_

$\frac{1}{3}$  Cup of \_\_\_\_\_

$2\frac{1}{2}$  Cups of \_\_\_\_\_

$3\frac{1}{2}$  Cups of \_\_\_\_\_

$\frac{2}{3}$  Cup of Potion - \_\_\_\_\_

If you mixed the first two ingredients together, how many cups would there be in all?  
\_\_\_\_\_

**BREAD 1 Name:** \_\_\_\_\_

$1\frac{1}{2}$  Cup of \_\_\_\_\_

$\frac{1}{2}$  Cup of \_\_\_\_\_

$\frac{1}{4}$  Cup of \_\_\_\_\_

$\frac{1}{3}$  Cup of \_\_\_\_\_

$\frac{1}{4}$  Cup of Potion - \_\_\_\_\_

Which ingredients do you need the exact same amount of?  
\_\_\_\_\_

**BREAD 2 Name:** \_\_\_\_\_

2 Cups of \_\_\_\_\_

1 Cup of \_\_\_\_\_

$\frac{1}{2}$  Cup of \_\_\_\_\_

$2\frac{1}{4}$  Cups of \_\_\_\_\_

$\frac{1}{3}$  Cup of Potion - \_\_\_\_\_

Which ingredient do you need the most of?  
\_\_\_\_\_

**DONUT 1 Name:** \_\_\_\_\_

$\frac{1}{3}$  Cup of \_\_\_\_\_

1 Cup of \_\_\_\_\_

2 Cups of \_\_\_\_\_

$1\frac{1}{2}$  Cups of \_\_\_\_\_

$\frac{1}{2}$  Cup of \_\_\_\_\_

$\frac{1}{4}$  Cup of Potion - \_\_\_\_\_

Which ingredient do you need the least of?  
\_\_\_\_\_

Math Project: My Magical Bakery

**DONUT 2 Name:** \_\_\_\_\_

4  $\frac{1}{2}$  Cups of \_\_\_\_\_

3 Cups of \_\_\_\_\_

$\frac{1}{3}$  Cup of \_\_\_\_\_

$\frac{1}{2}$  Cup of \_\_\_\_\_

$\frac{3}{4}$  Cup of \_\_\_\_\_

$\frac{1}{5}$  Cup of Potion - \_\_\_\_\_

If you mixed the first two ingredients together, how many cups will there be in all?  
\_\_\_\_\_

**COOKIE 1 Name:** \_\_\_\_\_

1  $\frac{3}{4}$  Cups of \_\_\_\_\_

1  $\frac{1}{3}$  Cups of \_\_\_\_\_

1  $\frac{1}{2}$  Cups of \_\_\_\_\_

1 Cup of \_\_\_\_\_

$\frac{1}{4}$  Cup of \_\_\_\_\_

$\frac{1}{4}$  Cup of Potion - \_\_\_\_\_

How many cups of wet ingredients are needed in this recipe altogether? (Place a tick next to all of the ingredients that are wet, then add them up).  
\_\_\_\_\_

**COOKIE 2 Name:** \_\_\_\_\_

2 Cups of \_\_\_\_\_

$\frac{1}{4}$  Cup of \_\_\_\_\_

1  $\frac{3}{4}$  Cups of \_\_\_\_\_

1  $\frac{1}{3}$  Cups of \_\_\_\_\_

$\frac{1}{3}$  Cup of Potion - \_\_\_\_\_

How many cups of dry ingredients are needed in this recipe altogether? (Place a tick next to all of the ingredients that are dry, then add them up).  
\_\_\_\_\_

**Task 2:**

Larry the wizard is putting an order in for stock and is asking you the following questions to help him make some decisions.  
(You will need to refer back to your completed recipe cards to complete the questions.)

1. Which ingredient do you need the most of to make all three types of cakes? \_\_\_\_\_
2. Which ingredient do you need the most of to make both types of muffins?  
\_\_\_\_\_
3. Which ingredient do you need the most of to make both types of breads?  
\_\_\_\_\_

4. Which ingredient do you need the most of to make both types of donuts?  
\_\_\_\_\_
5. Which ingredient do you need the most of to make both types of cookies?  
\_\_\_\_\_
6. Which potion did you use the most of over all of your recipes?  
\_\_\_\_\_

Math Project: My Magical Bakery

# Level 4: Hiring Staff

## Task 1:

You are going to need help to bake and sell all of your goods for customers. Larry the Wizard has given you a weekly budget of \$2,000 that you can spend on wages. You must hire at least three workers from the selection presenting you their resume below, however you cannot go over \$2,000 in total for weekly of wages.

Place a tick in the box for every resume application you accept and hire the worker (agreeing to pay their weekly wage request). You must choose a minimum of three workers and cannot exceed spending \$2,000 a week.

**Name:** Winfred the Witch

**Special Skills:** Excellent at making potions!

**Weekly Wage:** \$750



Hired

**Name:** Pepe the Pizza Chef

**Special Skills:** Makes amazing pizzas!

**Weekly Wage:** \$575



Hired

**Name:** Olivia the Owl

**Special Skills:** Makes magnificent muffins and cookies.

**Weekly Wage:** \$539



Hired

**Name:** Carl the Cat

**Special Skills:** Makes brilliant cakes.

**Weekly Wage:** \$875



Hired

**Name:** Tina the Turkey

**Special Skills:** Excels in baking and decorating.

**Weekly Wage:** \$820



Hired

**Name:** Gandalf the Wizard

**Special Skills:** Powerful magic and makes tasty treats.

**Weekly Wage:** \$700



Hired

**Name:** Emma the Elf

**Special Skills:** Fantastic Customer Service

**Weekly Wage:** \$550



Hired

**Name:** Paul the Penguin

**Special Skills:** Speedy and efficient cook.

**Weekly Wage:** \$399



Hired



Math Project: My Magical Bakery

# Level 4: Hiring Staff

## Task 4:

You will need to refer back to your completed roster in task 3 to complete the questions below.

1. Write the total amount of hours each worker (including yourself) will be working per week.

Name: \_\_\_\_\_ Total rostered hours per week: \_\_\_\_\_

Name: \_\_\_\_\_ Total rostered hours per week: \_\_\_\_\_

Name: \_\_\_\_\_ Total rostered hours per week: \_\_\_\_\_

Name: \_\_\_\_\_ Total rostered hours per week: \_\_\_\_\_

Name: \_\_\_\_\_ Total rostered hours per week: \_\_\_\_\_

Name: \_\_\_\_\_ Total rostered hours per week: \_\_\_\_\_

2. How many hours in total are being worked by everyone in your magical bakery?  
(Hint: Add up the individual totals from the previous question)

\_\_\_\_\_

3. Are there any hours between 6:00am – 5:00pm on any day where no one is rostered on to work? \_\_\_\_\_

4. If you answered 'YES' to question 3, why has this happened? Is there anything you can do to fix it so that you won't have to close your bakery during those times? (If you answered 'NO' to question 3, skip this and move to question 5.)

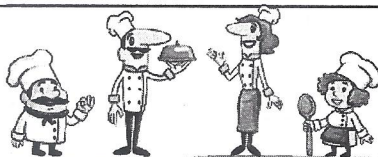
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Which day/s do you have the most workers rostered on?

\_\_\_\_\_

6. Which day/s do you have the least workers rostered on?

\_\_\_\_\_



Level 4 Complete







Math Project: My Magical Bakery  
**Level 5: Cooking Time**

**Task 2:**

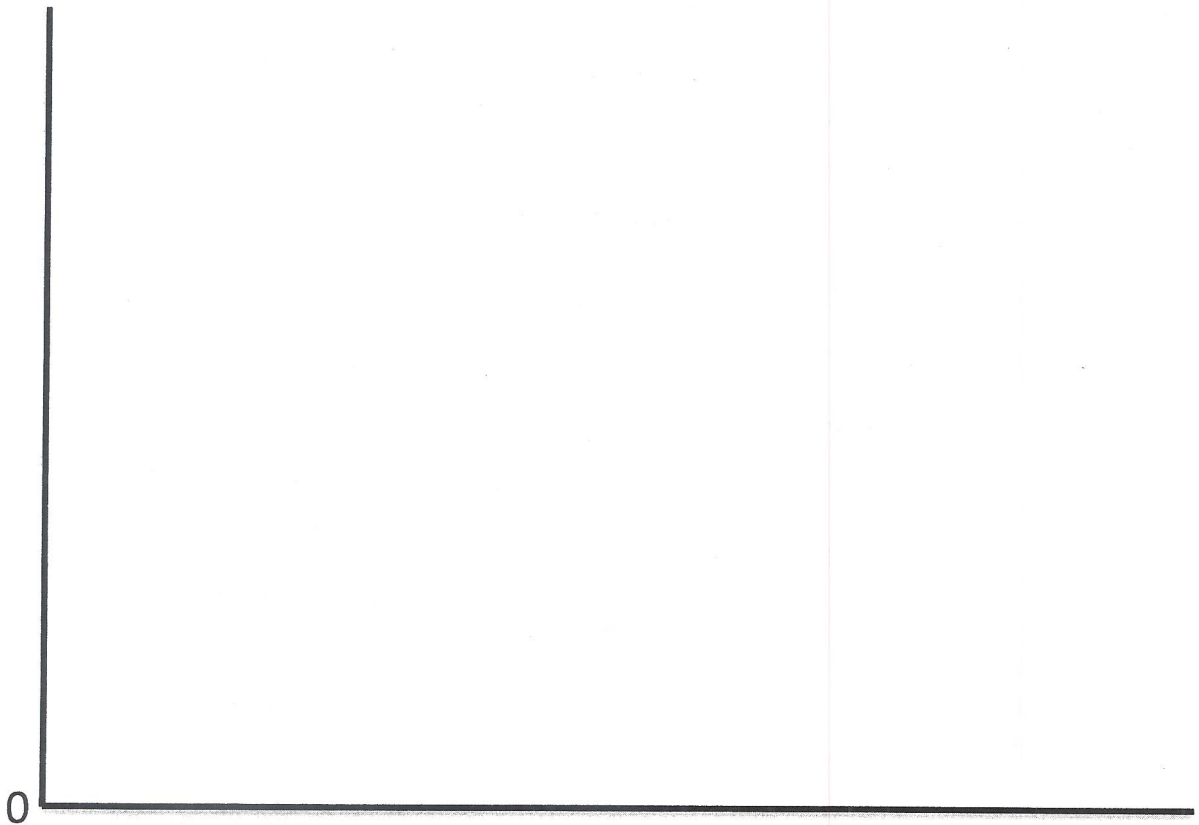
Complete the following table based on the data from your cooking schedule created in Task 1 of this level.

Specific Item name	Quantity baked between 6:00am – 3:30pm

Item name	Quantity baked between 6:00am – 2:00pm

Draw a bar/column graph below to show how many of each bakery item was made between 6:00am – 3:30pm in your magical bakery. Label the x-axis and y-axis, give your graph a title.

TITLE: \_\_\_\_\_

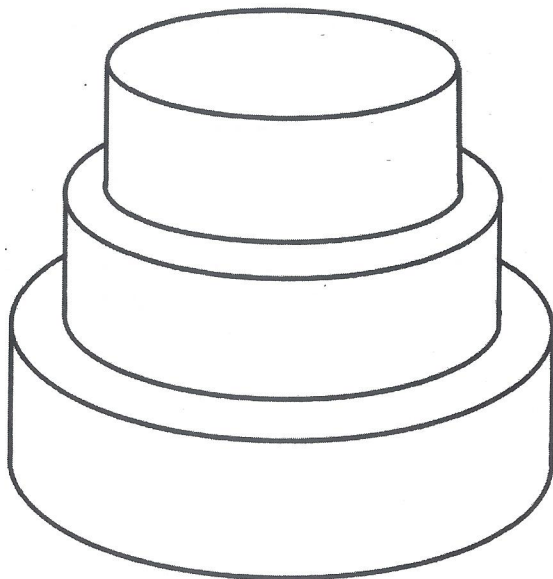


## Level 6: Decorating Station

### Task 1:

Decorating your bakery items is important to dazzle your customers and make them want to buy. In the templates provided, write the specific name for the item you are decorating, follow the rules given to each item card (you will need to decide the total number of shape decorations that you want in total, then work out the fractions of that number). Make your items look amazing to dazzle your customers!

Cake #1 Name: \_\_\_\_\_



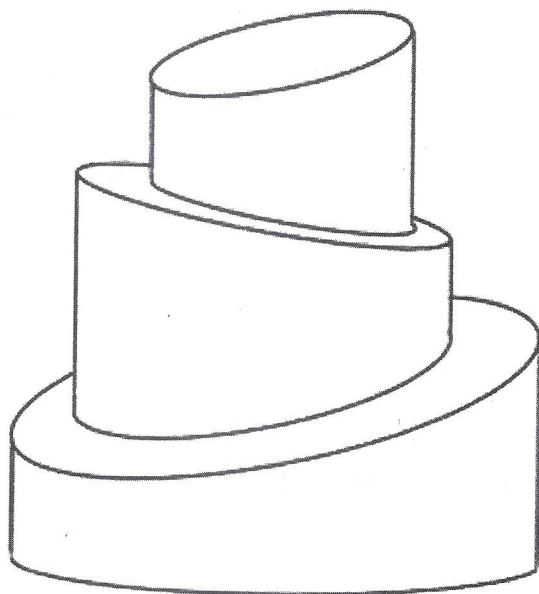
### Shape Item Decorating Rules:

Total number of shape decorations that will be on my cake: \_\_\_\_\_

- $\frac{1}{4}$  green sparkly dots
- $\frac{1}{4}$  pink fluffy clouds
- $\frac{1}{4}$  yellow stars
- $\frac{1}{4}$  blue moon crescents

Your choice for coloring the icing

Cake #2 Name: \_\_\_\_\_



### Shape Item Decorating Rules:

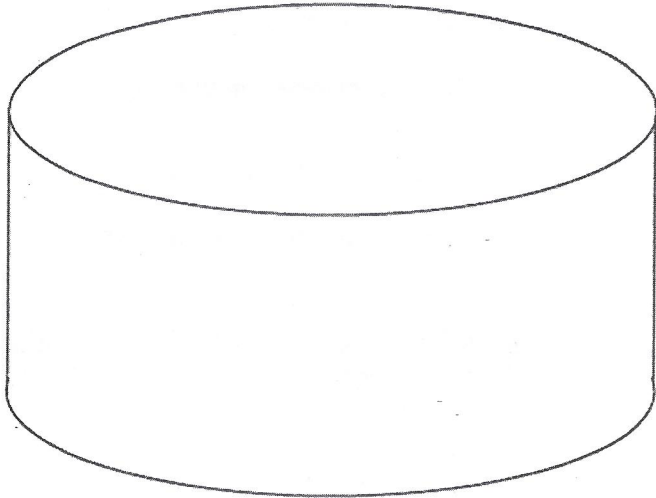
Total number of shape decorations that will be on my cake: \_\_\_\_\_

- $\frac{1}{5}$  stars (any color)
- $\frac{1}{5}$  diamonds (any color)
- $\frac{1}{5}$  triangles (any color)
- $\frac{1}{5}$  hexagons (any color)
- $\frac{1}{5}$  Your Choice of shape

Select two or three different colors for the icing.

## Level 6: Decorating Station

Cake #3 Name: \_\_\_\_\_



### Shape Item Decorating Rules:

Total number of shape decorations that will be on my cake: \_\_\_\_\_

- $\frac{1}{8}$  any shape in purple
- $\frac{1}{4}$  any shape in black
- $\frac{1}{2}$  any shape in green
- $\frac{1}{8}$  any shape in yellow

Your choice for coloring the icing

Muffin #1 Name: \_\_\_\_\_



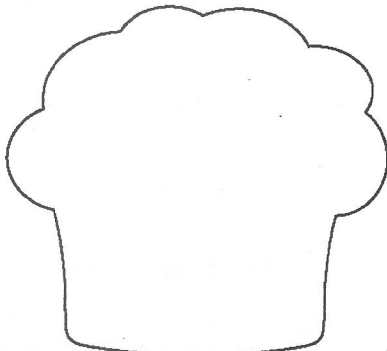
### Shape Item Decorating Rules:

Total number of shape decorations that will be on my muffin: \_\_\_\_\_

- $\frac{1}{3}$  circles (any color)
- $\frac{1}{3}$  squares (any color)
- $\frac{1}{3}$  pentagons (any color)

Your choice of color for the rest.

Muffin #2 Name: \_\_\_\_\_



### Shape Item Decorating Rules:

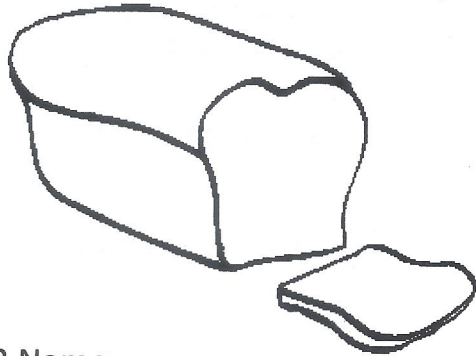
Total number of shape decorations that will be on my muffin: \_\_\_\_\_

- $\frac{1}{2}$  any shape in blue
- $\frac{1}{2}$  any shape in orange

Your choice of color for the rest.

# Level 6: Decorating Station

Bread #1 Name: \_\_\_\_\_



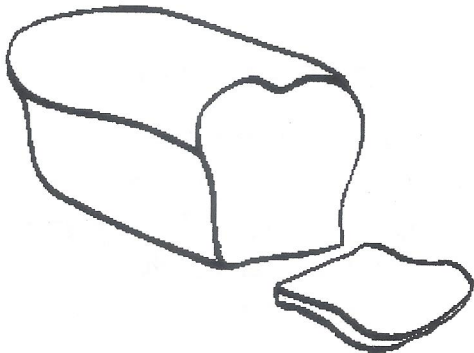
### Shape Item Decorating Rules:

Total number of shape decorations that will be on my bread: \_\_\_\_\_

- $\frac{1}{3}$  any shape in purple
- $\frac{2}{3}$  any shape in red

Your choice of color for the rest.

Bread #2 Name: \_\_\_\_\_



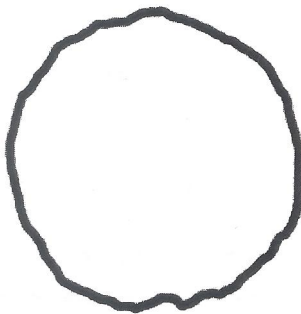
### Shape Item Decorating Rules:

Total number of shape decorations that will be on my bread: \_\_\_\_\_

- $\frac{1}{2}$  any shape in green
- $\frac{1}{4}$  any shape in brown
- $\frac{1}{4}$  of any shape in orange

Your choice of color for the rest.

Cookie #1 Name: \_\_\_\_\_



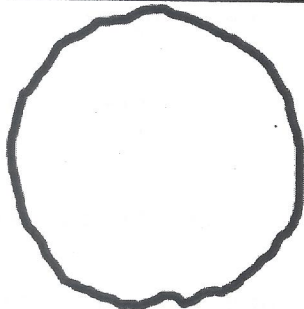
### Shape Item Decorating Rules:

Total number of shape decorations that will be on my cookie: \_\_\_\_\_

- $\frac{1}{3}$  red spots
- $\frac{2}{3}$  purple spots

Your choice of color for the rest.

Cookie #2 Name: \_\_\_\_\_



### Shape Item Decorating Rules:

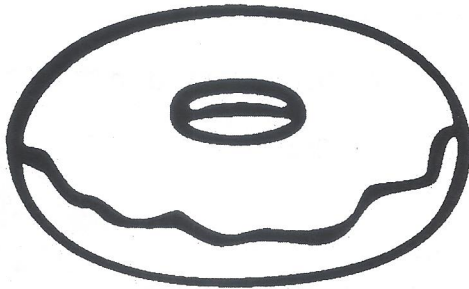
Total number of shape decorations that will be on my cookie: \_\_\_\_\_

- $\frac{3}{5}$  any shape in yellow
- $\frac{1}{5}$  any shape in green
- $\frac{1}{5}$  any shape in orange

Your choice of color for the rest.

## Level 6: Decorating Station

Donut #1 Name: \_\_\_\_\_



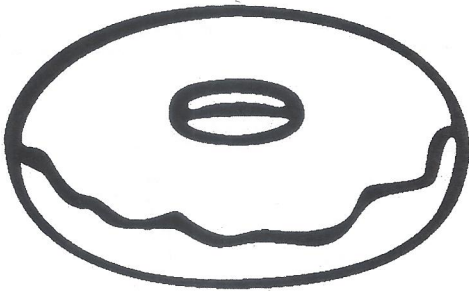
### Shape item Decorating Rules:

Total number of shape decorations that will be on my donut: \_\_\_\_\_

- $\frac{1}{6}$  yellow dots
- $\frac{1}{2}$  purple squares
- $\frac{1}{3}$  blue triangles

*Your choice of color for the rest of the donut.*

Donut #2 Name: \_\_\_\_\_



### Shape item Decorating Rules:

Total number of shape decorations that will be on my donut: \_\_\_\_\_

- $\frac{5}{10}$  stars (any color)
- $\frac{1}{10}$  squares (any color)
- $\frac{1}{5}$  moon crescents (any color)
- $\frac{2}{10}$  any shape in red

*Your choice of color for the rest of the donut.*

### Task 2:

Create a little advertising brochure in the space below to market your amazing magical bakery items!

Level 6 Complete

# Level 7: Setting Prices

## Task 1:

It is almost time to start selling your magical bakery items! But first, you will need to set a price for each item. You must follow the pricing rules outlined below:

### PRICING RULES

- All three of your cakes must be more expensive than your muffins, donuts, cookies and bread loaves.
- Your donuts must cost at least 25% more than your muffins.
- Your two different bread loaves cannot cost the same.
- Your muffins cannot cost more than \$6.00 each.
- Your cakes cannot cost more than \$450.00 each.
- Your cookies must cost less than all of your donuts and muffins.



Cake 1: \_\_\_\_\_

A rectangular price tag with a pointed right side and a small circle at the tip, intended for writing the price of Cake 1.

Cake 2: \_\_\_\_\_

A rectangular price tag with a pointed right side and a small circle at the tip, intended for writing the price of Cake 2.

Cake 3: \_\_\_\_\_

A rectangular price tag with a pointed right side and a small circle at the tip, intended for writing the price of Cake 3.

Muffin 1: \_\_\_\_\_

A rectangular price tag with a pointed right side and a small circle at the tip, intended for writing the price of Muffin 1.

Muffin 2: \_\_\_\_\_

A rectangular price tag with a pointed right side and a small circle at the tip, intended for writing the price of Muffin 2.

Bread 1: \_\_\_\_\_

A rectangular price tag with a pointed right side and a small circle at the tip, intended for writing the price of Bread 1.

Bread 2: \_\_\_\_\_

A rectangular price tag with a pointed right side and a small circle at the tip, intended for writing the price of Bread 2.

Donut 1: \_\_\_\_\_

A rectangular price tag with a pointed right side and a small circle at the tip, intended for writing the price of Donut 1.

Donut 2: \_\_\_\_\_

A rectangular price tag with a pointed right side and a small circle at the tip, intended for writing the price of Donut 2.

Cookie 1: \_\_\_\_\_

A rectangular price tag with a pointed right side and a small circle at the tip, intended for writing the price of Cookie 1.

Cookie 2: \_\_\_\_\_

A rectangular price tag with a pointed right side and a small circle at the tip, intended for writing the price of Cookie 2.

Level 7 Complete

# Level 8: Customer Sales



## Task 1:

Your Magical Bakery is now open! Customers have placed the orders below. You will need to refer to the prices you set in Level 7, and then add up the total cost for each order to complete the sale. (Item type number reference from price tag labels in Level 7.)

### Customer 1

- 1 of (Cake 2) .....\$ \_\_\_\_\_
- 2 of (Muffin 1).....\$ \_\_\_\_\_
- 5 of (Cookie 1) .....\$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

### Customer 2

- 10 of (Donut 1) .....\$ \_\_\_\_\_
- 3 of (Muffin 2).....\$ \_\_\_\_\_
- 1 of (Bread 1) .....\$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

### Customer 3

- 1 of (Bread 2) .....\$ \_\_\_\_\_
- 1 of (Cake 1).....\$ \_\_\_\_\_
- 20 of (Cookie 2) .....\$ \_\_\_\_\_
- 12 of (Donut 2) .....\$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

### Customer 4

- 7 of (Muffin 1) .....\$ \_\_\_\_\_
- 2 of (Cake 3).....\$ \_\_\_\_\_
- 5 of (Bread 1) .....\$ \_\_\_\_\_
- 10 of (Cookie 1) .....\$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

### Customer 5

- 4 of (Donut 2) .....\$ \_\_\_\_\_
- 8 of (Muffin 1).....\$ \_\_\_\_\_
- 8 of (Muffin 2) .....\$ \_\_\_\_\_
- 11 of (Cookie 2) .....\$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

### Customer 6

- 2 of (Cake 1) .....\$ \_\_\_\_\_
- 1 of (Cake 2).....\$ \_\_\_\_\_
- 15 of (Cookie 1) .....\$ \_\_\_\_\_
- 25 of (Cookie 2) .....\$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

### Customer 7

- 9 of (Bread 1) .....\$ \_\_\_\_\_
- 12 of (Bread 2).....\$ \_\_\_\_\_
- 30 of (Cookie 1) .....\$ \_\_\_\_\_
- 18 of (Muffin 2) .....\$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

### Customer 8

- 1 of (Cake 3) .....\$ \_\_\_\_\_
- 2 of (Cake 2).....\$ \_\_\_\_\_
- 4 of (Donut 1) .....\$ \_\_\_\_\_
- 10 of (Donut 2) .....\$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

# Level 8: Customer Sales



The sales are booming! Your Magical Bakery is gaining popularity with the locals in Mathhattan. You have received more orders from customers below. Just like on the previous page, you will need to refer to the prices you set in Level 7, and then add up the total cost for each order to complete the sale. The final two blank orders can be done by yourself or ask a friend to put an order in from your bakery (can order between 2- 4 items).

## Customer 9

- 3 of (Donut 1) .....\$ \_\_\_\_\_
- 7 of (Muffin 2) .....\$ \_\_\_\_\_
- 9 of (Cookie 2) .....\$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

## Customer 10

- 6 of (Donut 2) .....\$ \_\_\_\_\_
- 5 of (Bread 1) .....\$ \_\_\_\_\_
- 1 of (Cake 1) ..... \$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

## Customer 11

- 3 of (Muffin 1) .....\$ \_\_\_\_\_
- 2 of (Cake 1) ..... \$ \_\_\_\_\_
- 11 of (Donut 2) ..... \$ \_\_\_\_\_
- 16 of (Donut 1) .....\$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

## Customer 12

- 8 of (Cookie 2) .....\$ \_\_\_\_\_
- 18 of (Muffin 2) .....\$ \_\_\_\_\_
- 22 of (Muffin 1) .....\$ \_\_\_\_\_
- 1 of (Cake 3) ..... \$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

## Customer 13

- 1 of (Cake 2) .....\$ \_\_\_\_\_
- 2 of (Bread 1) .....\$ \_\_\_\_\_
- 6 of (Muffin 1) .....\$ \_\_\_\_\_
- 4 of (Cookie 1) .....\$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

## Customer 14

- 5 of (Donut 2) .....\$ \_\_\_\_\_
- 9 of (Cookie 1) .....\$ \_\_\_\_\_
- 15 of (Cookie 1) .....\$ \_\_\_\_\_
- 25 of (Cookie 2) .....\$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

## Customer 15 (Your order Choice)

- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_

Total Cost: \$ \_\_\_\_\_

## Customer 16 (Your order choice)

- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_

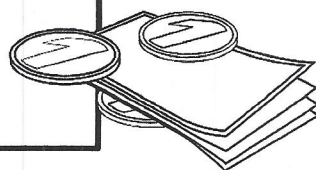
Total Cost: \$ \_\_\_\_\_



# Level 8: Customer Sales

## Task 2:

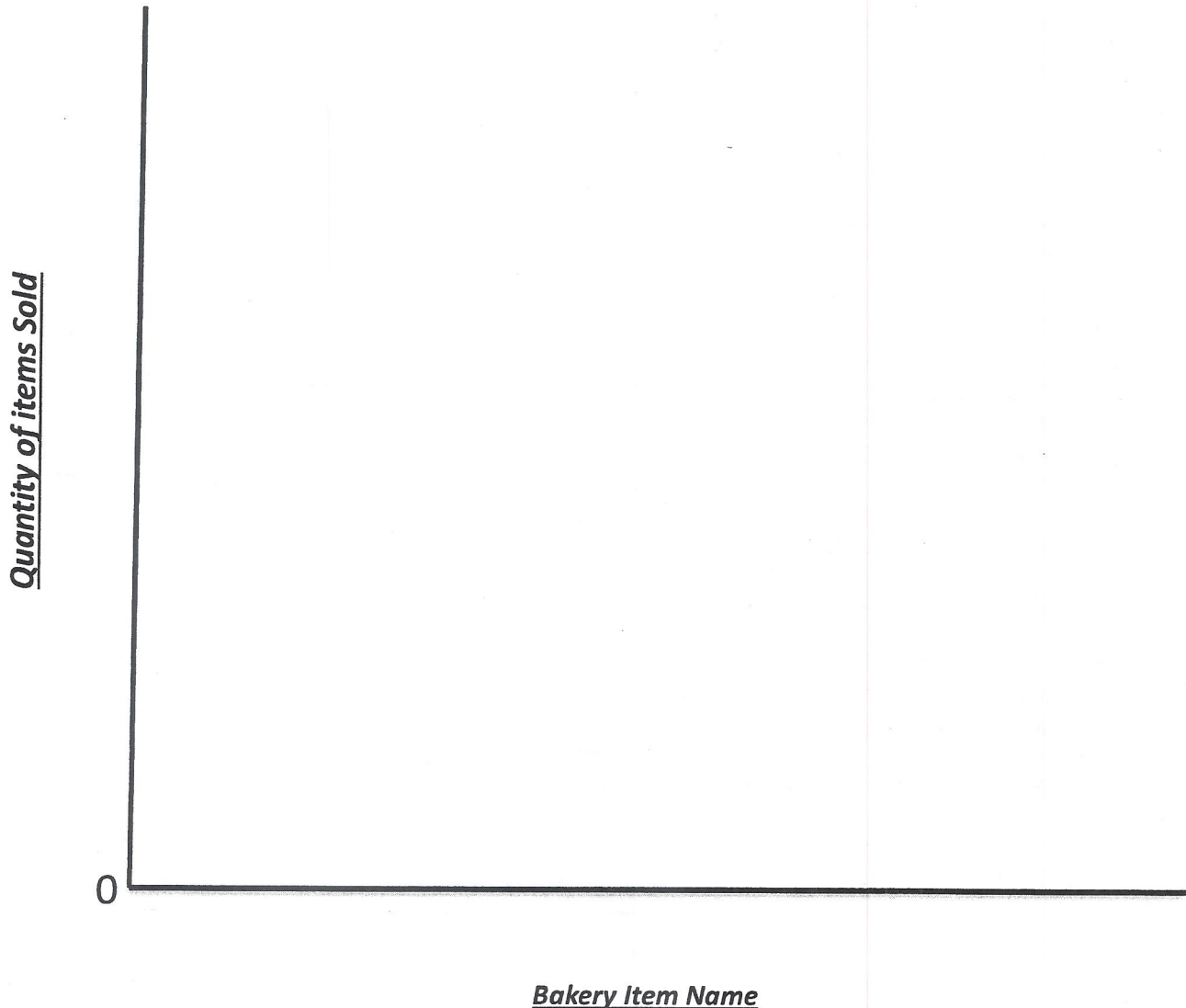
Your Magical Bakery is now closed for the day. Add up your total sales for the day (*the totals of your 16 customer orders*) and put the amount in the bakery bank box below:

<b>Bakery Bank Box Total:</b> \$ _____	
---	---

## Task 3:

Using the data from your customer sales, draw a bar/column graph to show your sales for the day in the space below. You will need to label the X-axis with the product names and the Y-axis with numbers for the quantity of items sold.

### Magical Bakery Units Sold for the Day



Level 8 Complete



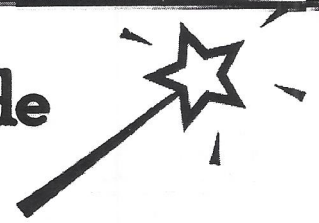
# Level 9: Magical Upgrades

## Task 1:

Larry wants you to use half of the money that you put in your Bakery Bank Box (See amount in Level 8 Task 2), to spend on upgrades for your Magical Bakery. First work out how much is half of the amount in your Bakery Bank Box to find out your spending limit, then select item upgrades that you wish to purchase from the list below. In the selection box, write the quantity that you would like to purchase of that item. Remember that you cannot spend more than half of the amount in your Bakery Bank Box!

Item Name	Price	Tick to Select and purchase (Write quantity that you wish to purchase)
Magical Star Light	\$84.20	
Flying Broom Order Holder (hovers above the customer counter holding orders outstanding.)	\$136.50	
Sparkling Pot Plant	\$49.95	
Golden Cash Register	\$3,670.35	
Magical Moon Light	\$99.80	
Floating Display Plate (Make your bakery items more appealing!)	\$475.50	
Glowing Chocolate Fountain (Dip some magic bread to taste.)	\$2,962.00	
Cupcake Tree (edible off the tree, but be warned of the random side effects!)	\$1,846.65	
Baker's Magic Wand (Makes all things nice with a bit of magic spice!)	\$2,788.30	
Talking Recipe Book (The book will read out the recipe while you cook.)	\$739.95	
Bigger Potion Vial (Store more potion in one vial.)	\$17.65	
Music Jukebox	\$3,219.00	
Wizard Statue	\$504.25	

# Level 9: Magical Upgrade



## Task 2:

Carry out the following tasks:

1. Calculate how much in total you spent on upgrades in Task 1. Write this amount in the space provided. **Total Cost for Upgrades:** \$ \_\_\_\_\_
2. What was half of the amount in your Bakery Bank Box? \$ \_\_\_\_\_
3. Did you spend more or less than half the amount in your Bakery Bank Box?

**MORE**

If you answered 'more' you will need to return an item or items to make the total amount equal or less than what you were supposed to spend.

**LESS**

If you answered 'less' well done on spending under budget. You may proceed directly to question 3.

What Item/s did you put back?

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(Calculate your new total cost for upgrades)

\$ \_\_\_\_\_



3. Calculate how much money you have left over from the amount that you were allowed to spend.

**Half the total amount in the Bakery Bank Box – Total Cost for Upgrades = \$ \_\_\_\_\_**

4. Calculate the total amount now left in your Bakery Bank Box.

**Whole Amount in the Bakery Bank Box (in Level 8 Task 2) – Total Cost for Upgrades = \$ \_\_\_\_\_**

5. Go ahead now and draw in your upgrades onto your Magical Bakery Map completed in Level 1.

6. **Color your map to look presentable for the Magical Bakery Tour coming up in the next level!**

Level 9 Complete

## Level 10: Magical Bakery Tour

### Task 1:

Some witches, wizards, and goblins are visiting for a tour around your magical bakery. Use the coordinates on your Magical Bakery Map (completed in Level 1) to answer the following visitor questions.

1. "What would I find at coordinates B,2?"

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2. "What would I find at coordinates E,6?"

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3. "What would I find at coordinates D,11?"

---

4. "What would I find at coordinates A,8?"

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5. "Where are all of the potions kept?" (Give the coordinates)

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6. "Where are the bakery items decorated?" (Give the coordinates)

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7. "Where is the refrigerator?" (Give the coordinates)

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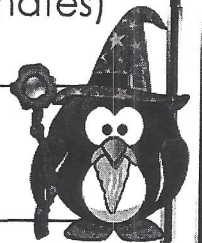
8. "Where are the ovens that cook your magical bakery items?"

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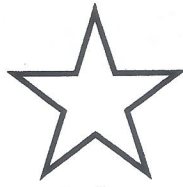
9. "Where are all of the ingredients stored?" (Give the coordinates)

---

10. What is your favorite part of the Magical Bakery and where is it located? \_\_\_\_\_



Level 10 Complete



**WELL DONE!**



Great job at completing all 10 levels of this project!



## EXTENSION TASKS

- Create an advertisement (commercial, article, poster) to promote your Magical Bakery, you will need to include information about it.
- Make a presentable menu to showcase all of your Magical Bakery Items, include a description about taste and any magical side effects!
- Create labels for the potions you made in Level 2. Include a 'Warning' description about what will happen if consumed.
- Carry out more sales to customers (ask your classmates, friends, teachers, parents to put in an order at your Magical Bakery). Continue to add the amounts earned on your orders to your Bakery Bank Box.
- Continue to use the money made in your sales to purchase special upgrades for your Magical Bakery (draw them on to your map). You cannot spend more than what you have in your Bakery Bank Box.
- Draw a picture of what you imagine the front of your Magical Bakery to look like.
- Write a reflection about this project, include what you enjoyed doing, what you would do differently next time, what you found the most difficult and what you have learned from it.

# CUSTOMER ORDER TEMPLATES (EXTRA)

These are optional blank templates provided for extension activity to make extra sales!

**Customer Name:** \_\_\_\_\_

- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_

**Total Cost:** \$ \_\_\_\_\_

**Customer Name:** \_\_\_\_\_

- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_

**Total Cost:** \$ \_\_\_\_\_

**Customer Name:** \_\_\_\_\_

- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_

**Total Cost:** \$ \_\_\_\_\_

**Customer Name:** \_\_\_\_\_

- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_

**Total Cost:** \$ \_\_\_\_\_

**Customer Name:** \_\_\_\_\_

- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_

**Total Cost:** \$ \_\_\_\_\_

**Customer Name:** \_\_\_\_\_

- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_

**Total Cost:** \$ \_\_\_\_\_

**Customer Name:** \_\_\_\_\_

- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_

**Total Cost:** \$ \_\_\_\_\_

**Customer Name:** \_\_\_\_\_

- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_
- \_\_ of (\_\_\_\_\_) .....\$ \_\_\_\_\_

**Total Cost:** \$ \_\_\_\_\_