



**This Christmas  
Bundle includes fun, festive, and rigorous  
resources to keep your students begging  
for more this December!**

# CHRISTMAS MATH PROJECT

# Christmas Math Project

Christmas Math has never been so much fun! This Christmas Math Project will keep your students engaged and begging for more throughout the month of December, as they complete relevant, meaningful, and FUN tasks using **addition, subtraction, graphing and data interpretation, time, logic, and so much more!**

**BEST SUITED TO GRADES 3-5**

**SHELLEY GRAY**

## OUTDOOR DECORATING

You have BIG plans this year for decorating! Lights, a wreath, a reindeer on the front lawn – you want it all! BUT, you have a budget to stick to. You have \$200 to spend on outdoor Christmas decorations.



**WINDOW MEASUREMENTS**

Window	Perimeter in centimeters	Perimeter in meters
A		
B		
C		
D		
E		
F		
G		

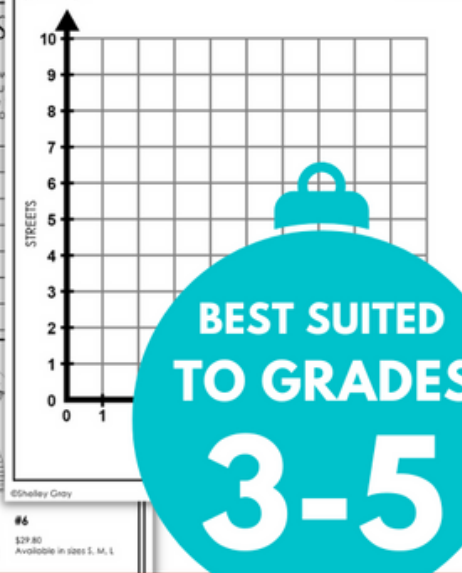
## FESTIVE CHRISTMAS

You and your friends are going to a Festive Christmas Party! You buy yourself a great Santa sweater! Now you need to figure out which one you'll need for each person.

Sweater #	Jill	Marcus	Anna	Cody
#1				
#2				
#3				
#4				
#5				
#6				

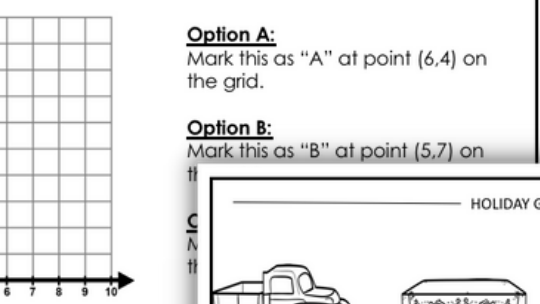
## SLEIGH RIDE MAP

You are planning the annual "Friends and Family Sleigh Ride!" First, you'll need to draw a map to plan your route. The map below represents the streets and avenues of your neighborhood. Use the directions on the next page to label your map.



## THE PERFECT TREE

It's time to find the PERFECT Christmas tree! Every year, your family goes to the Maple Ridge Christmas Tree Farm to find a tree. You have found three different trees there that you think would be perfect for your house. Mark them on the grid.



- Option A:** Mark this as "A" at point (6,4) on the grid.
- Option B:** Mark this as "B" at point (5,7) on the grid.

## HOLIDAY GIFT GUIDE PLANNING

You are in charge of planning the gifts for 5 of your cousins:

- Sophie, age 2
  - Brynn, age 5
  - Andrew, age 4
  - Sam, age 10
  - Emma, age 9
- Each cousin has a budget of \$30.00 per person.

**THINK FAST!** If your budget is \$30.00 per person, what is the total budget for all 5 cousins? Write a multiplication equation to show your answer.

Use this page and the next to plan what you'll buy for each person. Try to get as close to \$30 as you can on each person, but don't go over!

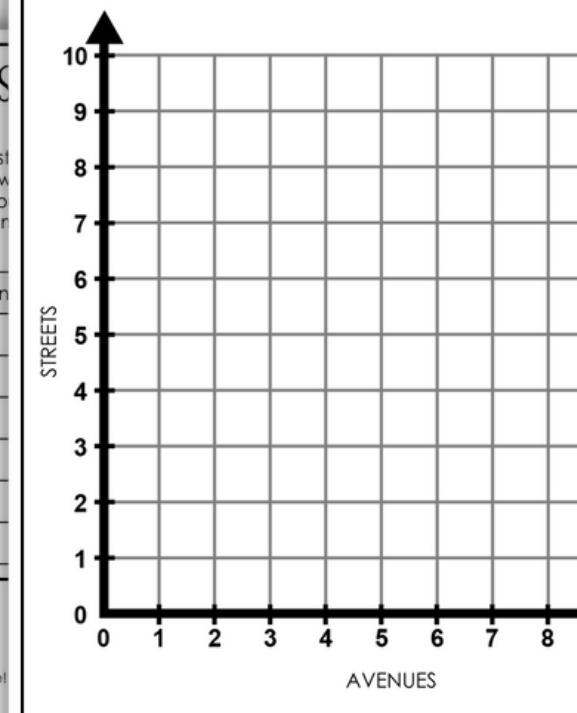
## HOLIDAY GIFT GUIDE PAGE 2

Choose a gift for each cousin from the list below:

Dump Truck ITEM # 110 \$10.70	Piano ITEM # 111 \$9.25	Action Figure ITEM # 112 \$7.50
Stacking Tower ITEM # 114 \$6.55	Doll House ITEM # 122 \$19.35	Science Kit ITEM # 118 \$19.50

## SLEIGH RIDE MAP

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## CHRISTMAS DINNER

dinner this year! It's really exciting because all our cousins are able to make it! You sit down and who will be coming:

*our dinner guests*

Terry and their kids - Tyson and Shane  
 and his - Jaxon, Clarke, and Hudson  
 Great Uncle Fred  
 brother Dylan

How many guests will there be in all? \_\_\_\_\_

Which room of your house would be best to have a dinner? You'll need an area of about 5 square meters per person. How big a room will you need? \_\_\_\_\_

### LIVING ROOM

Area = \_\_\_\_\_

## DECORATING THE TREE

Take an inventory of all of the Christmas decorations in your basement and figure out how many you have of each! You make a picture graph to show the data.

**Decorations Inventory**

Christmas Cards	○○○○○○○○○○
Ornaments	○○○○○○○○○○○○○○○○
String of Lights	○○○○○○○○○○○○○○○○
Wreath	○○○○○○○○
Stockings	○○○○○○○○○○○○○○○○○○○○
Garland	○○○○○○○○○○○○○○○○○○○○
Tables	○○○○
Christmas Trees	○○○○○○○○○○○○○○○○○○○○

Use the picture graph to answer the questions:

How many gold and silver Christmas balls are there in all? Write a multiplication equation to show your work.

## OUTDOOR DECORATING

You have BIG plans this year for decorating! Lights, a wreath, a reindeer on the front lawn – you want it all! BUT, you have a budget to stick to. You have \$200 to spend on outdoor Christmas decorations.

You will use lights to decorate around all of your windows. You'll also wrap lights around the three pillars. Here are the measurements of your house:



**WINDOW MEASUREMENTS**

Window	Perimeter in centimeters	Perimeter in meters
A		
B		
C		
D		
E		
F		

## CHRISTMAS MOVIE MARATHON

Now it's time to plan your schedule for the day! You'll start the movie marathon at 10:00 am. You'll be watching all four movies, but you'll also need to plan time to have lunch, make popcorn, and of course have some breaks! Plan your schedule below:

What?	Start Time	End Time
Watch "Rudolph the Red-Nosed Reindeer"	10:00 am	
15 minute break		
Watch "A Christmas Story"		
30 minute lunch break		
Watch "Home Alone"		
15 minute break to make popcorn		



# CHRISTMAS GALLERY WALK

## Christmas Gallery Walk

A gallery walk is a fun way to get your students **up and moving** around the classroom. Simply post the gallery walk cards around the classroom, give your students the recording sheets and clipboards (or another hard surface to write on), and have them circulate the room, completing the tasks as they go!

SHELLEY GRAY

Would you rather give a gift, or get a gift? Why?



What do you think would be the hardest part of being one of Santa's elves?



Card #16



If you could invent your own flavor of candy cane, what would it be?

Card #

Would you rather give a gift, or get a gift? Why?



Card #23

What is the most important thing you can do to prepare for winter?



Card #

Would you rather live in a cold, snowy climate or a warm climate for Christmas? Why?



Card #4

Get your students up and moving around the room!



# Christmas Multiplication Mystery Pictures

This resource includes **11 different multiplication mystery pictures**. For each one, students will solve the multiplication equations and shade the corresponding squares on the hundred chart.

Ideal for math stations, early finisher tasks, or morning work throughout December!



**Christmas Mystery Picture CLUES** A

You will need: yellow green red light blue brown

Shade these boxes LIGHT BLUE:

$(2 \times 5) + 1$	$1 \times 3$	$(3 \times 4) + 1$
$(5 \times 6) + 1$	$10 \times 6$	$2 \times 11$
$5 \times 4$	$6 \times 2$	$(5 \times 8) + 1$
$7 \times 1$	$(4 \times 7) + 10$	$2 \times 16$
$8 \times 5$	$7 \times 4$	$(11 \times 5) + 4$
$9 \times 2$	$(25 \times 2) + 2$	$2 \times 2$
	$(10 \times 10) - 8$	$(9 \times 10) + 1$
	$3 \times 11$	$(12 \times 8) - 2$
	$3 \times 3$	$(9 \times 9) - 10$
	$7 \times 7$	$(4 \times 5) - 1$
	$(8 \times 2) + 1$	$(10 \times 9) + 7$
	$3 \times 10$	$10 \times 10$
	$(10 \times 10) - 2$	

Shade brown:

$25 \times 3$	
$(9 \times 8) + 1$	
$13 \times 2$	

Shade brown:

$12 \times 8$	
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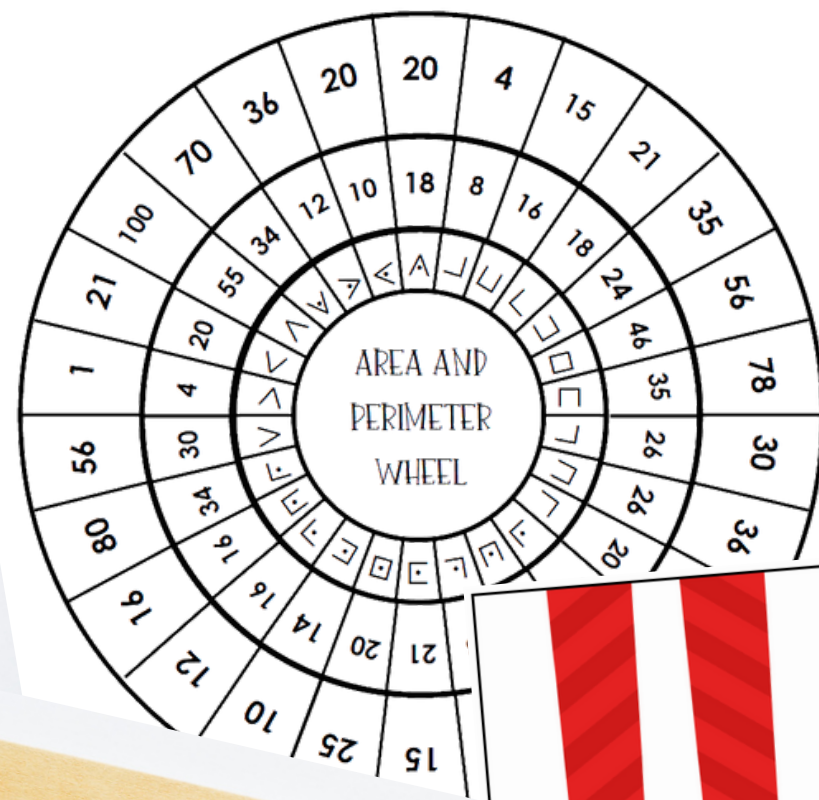
**Christmas Mystery Picture** A

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



# Christmas Escape Room

Oh no! The elves have been trapped inside the Super Secret Toy Room and it's your job to save them! Your students will work together as a team, cracking codes and solving clues as they go. This is a **high-energy, high-engagement** activity that will encourage **teamwork** and **cooperation**.



**OBSTACLE #1**  
**CREATE YOUR MAP**




Do you know how big Santa's Workshop is? It's HUGE! In order to get the elves out of the Super Secret Toy Room, you need a plan of action - and that starts with a map.

Use the clues on each task card to work your way through all of the twists and turns of Santa's Workshop.

**REMEMBER:** You MUST complete all task cards in order!

**GET YOUR LETTER TILE BY TAKING A MAP TO YOUR TEACHER.**

**OBSTACLE #3**  
**MRS. CLAUS AND HER COOKIE RECIPE**



You're getting closer to the room where the elves are trapped! As you make your way through the twists and turns, you see Mrs. Claus up ahead. She looks upset.

"Why are you upset," you ask her.  
"It's my cookies," she says with a sad look on her face.  
"I need to make a double batch of cookies for tonight's supper, but I can't figure out how to double my recipe."

You are in a huge hurry to save the elves, but you can't just leave Mrs. Claus when she is so upset. You decide to help her double the recipe.

**GET YOUR LETTER TILE BY TAKING THE DOUBLED RECIPE TO YOUR TEACHER.**

**Oh no!**




A group of elves has accidentally been locked in the **Super Secret Toy Room** in Santa's Workshop! With only four days left until Christmas, Santa needs **EVERY SINGLE** elf making toys!

It's your job to travel through Santa's Workshop and rescue the elves.

But along the way, you encounter five different obstacles that you'll have to overcome before you can make it to the Super Secret Toy Room and unlock the door.

Are you ready for the challenge?

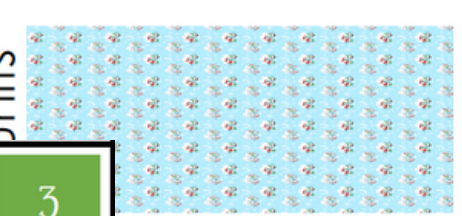
**3**



4 units

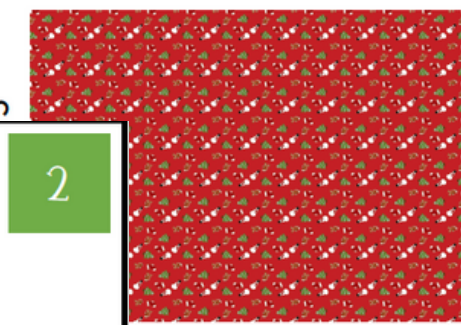
9 units

**2**



5 units

**1**



7 units

**OBSTACLE #2 CODE SHEET**

1	2	3	4	5	6	7	8
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# NORTH POLE MATH PROJECT



# North Pole Math Project

Another high-interest math project! The North Pole Math Project includes nine fun math tasks to practice **operations, area, graphing and data interpretation, fractions, money, elapsed time, and so much more!**

**BEST SUITED TO GRADES 3-5**

**SHELLEY GRAY**

### THE NORTH POLE CAFETERIA

It's lunch time at the North Pole Cafeteria! Take a look at today's menu.

THE NORTH POLE CAFETERIA Lunch Specials	
<b>Lunch Items</b>	<b>Desserts</b>
grilled cheese sandwich.....\$1.50	sugar cookie......75¢
peppermint pizza (1 slice).....\$3.25	candy cane cake.....\$1.80
pancakes with syrup.....\$2.75	fruit salad.....\$3.95
spaghetti.....\$4.50	
peanut butter and jelly sandwich.....\$2.80	<b>Beverages</b>
veggies and dip.....\$1.15	hot chocolate.....\$1.25
hamburger soup.....\$3.25	orange juice.....\$1.50
	apple juice.....\$1.50

### TOY INVENTORY

The elves are doing inventory of the toys. These graphs show the total number of toys in the North Warehouse and the South Warehouse.

### THE NORTH POLE PATROL

A small group of elves is known as "The North Pole Patrol" and they watch over Santa's Workshop and make sure that it is always safe.

This chart shows the six elves that will be patrolling between 9:00 am and 9:00 pm today. All of their shifts are a bit different. Figure out the patrol end time for each elf.

Name	Patrol Start Time	Patrol End Time
Jingles	9:00 am	
Chippy	12:00 pm	
Elfie	3:00 pm	
Max	4:00 pm	
Tinsel	11:00 am	
Jolly	1:00 pm	

### LETTERS TO SANTA

Each day in December, a big truck load of letters to Santa is delivered to the North Pole. The chart below shows how many letters were delivered each day. Transfer this data to the bar graph.

Sunday	1500
Monday	3300
Tuesday	2500
Wednesday	3400
Thursday	1000
Friday	2250
Saturday	2000

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### TOY ROOM FLOOR PLAN

1 square = 2 meters by 2 meters

Paste the items on the floor plan. Be sure that they are arranged in a way that makes practical sense!

Another group of 5 elves arrive at the cafeteria. They want to try something different from the menu. Write the name of the lunch item in the box and order which lunch item!

	Peppermint Pizza	Grilled Cheese Sandwich
Blizzard		
Jack		

### Letters Delivered This Week

### TOY ROOM FLOOR PLAN

Santa is redesigning the toy room in his workshop. Can you help him with a design?

Measurements:

- Each square on the floor plan is 2 meters by 2 meters and represents 4 square meters.

The following must be included in the workshop:

Item	Length (in meters)	Width (in meters)	Total Area
Building Supplies Storage Shelf #1	20 m	2 m	
Building Supplies Storage Shelf #2	20 m	2 m	
Tool Shelf	10 m	1 m	
Building Table #1	10 m	4 m	
Building Table #2	10 m	4 m	
Toy Testing Area	30 m	6 m	
Supervisor's Corner	6 m	6 m	
Toy Loading Area	10 m	4 m	

Be sure that you leave enough space for the elves to move between tables and shelves.

Think about layout – where does it make sense for things to go?

### THE NORTH POLE CAFETERIA

It's lunch time at the North Pole Cafeteria! Take a look at today's menu.

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hamburger soup.....\$3.25	orange juice.....\$1.50
	apple juice.....\$1.50

### TOY INVENTORY

The elves are doing inventory of the toys. These graphs show the total number of toys in the North Warehouse and the South Warehouse.

Blizzard doesn't like pizza. He and Coco don't want a sandwich for lunch. He only has \$3.00 to spend. He would like to have a sandwich. He only has \$2.00 to spend. What other menu items would be perfect for the North Pole Cafeteria?

### THE NORTH POLE EXPRESS ROUTE

The North Pole Express travels around the North Pole, taking passengers from one place to the next. Use the instructions on the next page to mark the route for the North Pole Express.

Ready to **simplify**  
and take your  
Christmas math **to**  
**the next level** this  
**year?**



# CHRISTMAS BUNDLE



**DECORATING THE WORKSHOP**  
It's workshop decorating day! The base ten blocks represent the number of each decoration in the workshop.

CANDY CANES	[Base ten blocks]	REELS	[Base ten blocks]
LIGHTS	[Base ten blocks]	KNITS	[Base ten blocks]

Write the number of each decoration:

	IN WORD FORM	AS AN ADDITION SENTENCE	AS A SUBTRACTION SENTENCE
Candy Cane			
Light			
Reel			
Knit			

**LETTERS TO SANTA**  
Each day in December, a big truck load of letters to Santa is delivered to the North Pole. The chart below shows how many letters were delivered each day. Transfer this data to the bar graph.

Day	Letters
Sunday	1500
Monday	3300
Tuesday	2900
Wednesday	3400
Thursday	1000
Friday	2250

**INVENTORY**  
The boys. These graphs show the total toys in the North Warehouse and the South Warehouse.

NUMBER OF TOYS IN SOUTH WAREHOUSE

Toy	Count
Truck	100
Ball	200
Car	300
Train	400
Plane	500
Robot	600
Stuffed Animal	700
Yo-Yo	800
Toy Gun	900

**Christmas Gallery Walk**

**Card #13**  
If you could invent your own flavor of candy cane, what would it be?

**Card #9**  
If this reindeer could talk, what would he say?

**BEST SUITED TO GRADES 3-5**

**SHELLEY GRAY**