

WHAT IS THIS?



Clue #1: Fill in the Blank
full and reindeer someone by it

Clue #2: Color the Reindeer
Solve each question. Circle the right answer and color in the picture. Then read the bottom.

Clue #3: Santa's House
Find the perimeter of each object. Color the objects in the house the same color as the sign they go with.

Clue #4: The Presents
First, write the answer on each Christmas present. Then, read what to do in the box at the bottom.

Clue #5: Picture Decoder
Find each answer. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Answers: 24,740 4,933 19,664 18,345 12,312 16,195 28,441 17,354 7,647 4,933 19,664 16,195
4x6,185 1x4,933 8x2,458 3x6,185 9x1,368 5x3,239 7x4,063 2x8,677 3x2,544

Letters: **N O T A T H O M E**

You knock on the door and Mrs. Claus said Santa's...
Use this decoder to help you figure out what letter is equal to each picture.

A =	G =	M =	S =	Y =
B =	H =	N =	T =	Z =
C =	I =	O =	U =	
D =	J =	P =	V =	
E =	K =	Q =	W =	
F =	L =	R =	X =	

solve the mystery

The Case of the Missing Santa

THE LIFETIME LEARNER

The North Pole

As you solve each clue, cross out the places that Santa is not located at. The place left at the end will reveal Santa's location!

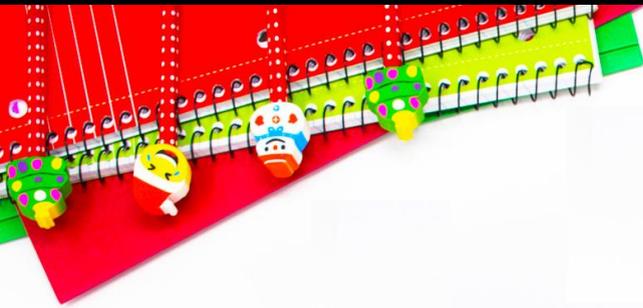
REINDEER STABLES
NORTH POLE CAFE
SANTA'S HOUSE
TOY FACTORY
SLEIGH GARAGE
GINGERBREAD HOUSE
POLAR BEAR ORPHANAGE
ELF VILLAGE

Name: _____

THE LIFETIME LEARNER

Students complete a series of clues to figure out where Santa is!

HOW TO PLAY



What Happened?

Oh no! SANTA IS MISSING!! It's your job to figure out where he is. Solve the clues to figure out where Santa is and solve the mystery!

1. Take a location list and then start solving each clue.
2. Each time you solve a clue, you will get closer to discovering where Santa is.
3. Cross out wrong places each time you find out new information. Good luck!

Clue #1: Fill in the Blank

full	and	reindeer	someone	by	it
garage	village	you	the	sleigh	bear
toy	empty	Santa	elf	stopped	was

Line segment	Draw it!	Word: you	Right angle	Draw it!	Word: the	Obtuse angle	Draw it!	Word: it
endpoint	Draw it!	Word: stopped	Parallel lines	Draw it!	Word: garage	line	Draw it!	Word: was
Acute angle	Draw it!	Word: by	ray	Draw it!	Word: and	Perpendicular lines	Draw it!	Word: empty

Solve each problem. Write the answer. Then, write the word that goes with it. When you are done, read the words in order from top to bottom ↓ in each row to figure out the clue.

The North Pole

As you solve each clue, cross out the places that Santa is not located at. The place left at the end will reveal Santa's location!

Name: _____

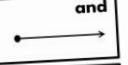
Each time students solve a clue, it will reveal what place to cross out.

When all clues are completed, "The Mystery of the Missing Santa" will be solved!

SKILL PRACTICE

- Geometry
- Protractors
- Area & Perimeter
- Place Value to 100,000
- 1 by 4 Digit Multiplication
- Christmas-Themed
- Error Analysis Practice

Clue #1: Fill in the Blank

	full		and		reindeer		someone		by		it
	garage		village						sleigh		bear
	toy		empty								

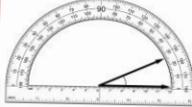
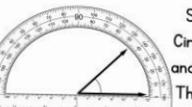
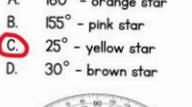
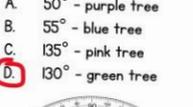
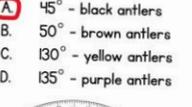
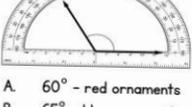
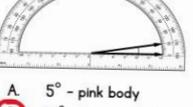
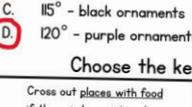
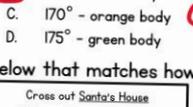
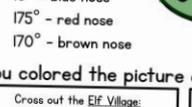
Draw it! Word:

Line segment		you
endpoint		stopped
Acute angle		by

Solve each problem. Write the answer words in order from top to bottom!

Clue #2: Color the Reindeer

Solve each question. Circle the right answer and color in the picture. Then read the bottom.

			A. 160° - orange star	A. 50° - purple tree	A. 45° - black antlers
			B. 155° - pink star	B. 55° - blue tree	B. 50° - brown antlers
			C. 25° - yellow star	C. 135° - pink tree	C. 130° - yellow antlers
			D. 30° - brown star	D. 130° - green tree	D. 135° - purple antlers

Choose the key below that matches how you colored the picture of the reindeer.

Cross out places with food if the reindeer picture has: • Yellow star • Blue tree • Brown antlers • Blue ornaments • orange body • Red nose	Cross out Santa's House if the reindeer picture has: • Pink star • Blue tree • Black antlers • Purple ornaments • Brown body • Red nose	Cross out the Elf Village if the reindeer picture has: • Yellow star • Green tree • Black antlers • Purple ornaments • Pink body • Black nose	Cross out places with animals if the reindeer picture has: • Yellow star • Green tree • Black antlers • Purple ornaments • Brown body • Red nose
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Clue #3: Santa's House

Find the perimeter of each object. Color the objects in the house the same color as the sign they go with.

Find the perimeter of:

- Door
- Fireplace
- 2 presents
- 2 dressers
- Bookshelf
- Window
- 2 paintings

Use the phrase to know what to cross out.

- 3 brown objects
- 2 green objects
- 4 red objects
- 1 yellow object

You go to the café and they said Santa hasn't bought hot cocoa today.

All clues focus on reviewing 4th grade math skills!

MULTIPLE VERSIONS



Print & Digital Forms

Clue #1: Fill in the Blank
full and reindeer someone by it

Clue #2: Color the Reindeer
Solve each question. Circle the right answer and color in the picture.

Clue #3: Santa's House
Find the perimeter of each object. Color the objects in the house the same color as the sign they go with.

3 Clue Version

- 1 brown object
- 4 green objects
- 3 red objects
- 2 yellow objects

- 4 brown objects
- 1 green object
- 3 red objects
- 2 yellow objects

- 3 brown objects
- 2 green objects
- 3 red objects
- 2 yellow objects

- 3 brown objects
- 2 green objects
- 4 red objects
- 1 yellow object

There are no footprints in the snow leading to the Gingerbread House.

You go to the cafe and they said Santa hasn't bought hot cocoa today.

Clue #1: Fill in the Blank
full and reindeer someone by it

Clue #2: Color the Reindeer
Solve each question. Circle the right answer and color in the picture.

Clue #3: Santa's House
Find the perimeter of each object. Color the objects in the house the same color as the sign they go with.

Clue #4: The Presents
First, write the answer on each Christmas present. Then, read what to do in the box at the bottom.

Clue #5: Picture Decoder
Find each answer. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Answers: 12,312; 18,345; 28,441; 24,740; 17,354; 7,647; 4,933; 19,664; 16,135

Letters: M, E

5 Clue Version

You knock on the door and Mrs. Claus said Santa's...

Use this decoder to help you figure out what letter is equal to each picture.

B = [picture], H = [picture], N = [picture], T = [picture], Z = [picture]
C = [picture], I = [picture], O = [picture], U = [picture]
E = [picture], K = [picture], Q = [picture], W = [picture]
F = [picture], L = [picture], R = [picture], X = [picture]

Clue #1: Fill in the Blank

full and reindeer someone by it
garage village you the sleigh bear
toy empty Santa elf stopped was

Line segment: Draw it! Word: you
Right angle: Draw it! Word: the
Obtuse angle: Draw it! Word: []

Endpoint: Draw it! Word: stopped
Parallel lines: Draw it! Word: garage
Line: Draw it! Word: []

Acute angle: Draw it! Word: by
Ray: Draw it! Word: and
Perpendicular lines: Draw it! Word: []

Solve each problem. Write the answer. Then, write the word that goes with it. When you are done, read the words in order from top to bottom in each row to figure out the clue.

Clue #1: Fill in the Blank

full and reindeer someone by it
garage village you the sleigh bear
toy empty Santa elf stopped was

Line segment: Draw it! Word: you
Right angle: Draw it! Word: []
Obtuse angle: Draw it! Word: []

Endpoint: Draw it! Word: []
Parallel lines: Draw it! Word: []
Line: Draw it! Word: []

Acute angle: Draw it! Word: []
Ray: Draw it! Word: []
Perpendicular lines: Draw it! Word: []

Solve each problem. Write the answer. Then, write the word that goes with it. When you are done, read the words in order from top to bottom in each row to figure out the clue.

Short & Long Options

2 MATH FACT OPTIONS!



The North Pole

As you solve each clue, cross out the places that Santa is not located at. The place left at the end will reveal Santa's location!

REINDEER STABLES
NORTH POLE CAFE
SLEIGH GARAGE
GINGERBREAD HOUSE
SANTA'S HOUSE
POLAR BEAR ORPHANAGE
TOY FACTORY
ELF VILLAGE

Name: _____

Clue #1: Fill in the Blank

15	full	6	and	8	reindeer	3	someone	10	by	13
18	garage	4	village	14	you	12	the	7	sleigh	19
20	toy	19	empty	17	Santa	2	elf	9	stopped	5

Answer: Word: _____

7+7= 4+8= 7+6=

6+3= 8+10= 2+3=

8+2=

Clue #2: Color the Reindeer

Solve each question. Circle the right answer and color in the picture. Then read the bottom.

14-5	18-7	20-7
A. 1 - orange star B. 10 - pink star C. 4 - yellow star D. 11 - brown star	A. 5 - purple tree B. 10 - blue tree C. 4 - pink tree D. 1 - green tree	A. 13 - black antlers B. 7 - brown antlers C. 17 - yellow antlers D. 12 - purple antlers
19-1	12-8	19-3
A. 12 - red ornaments B. 14 - blue ornaments C. 20 - black ornaments D. 8 - purple ornaments	A. 3 - pink body B. 4 - brown body C. 5 - orange body D. 17 - brown	A. 6 - black nose B. 2 - blue nose C. 16 - red nose D. 17 - brown

Clue #3: Food Sort

Figure out each answer. Write it next to each milk. Color the cookies the same color as the plate they belong on.

10 brown	12-4	16-9	17-8	10-2
9 green	18-9	20-10	11-2	15-5
8 red	10-3	13-3	15-7	12-5
7 yellow				

Which box below is true based on what you colored? Circle the box and read the phrase to know what to cross out.

- 3 brown cookies, 2 green cookies, 4 yellow cookies
- 3 brown cookies, 2 green cookies, 4 brown cookies
- 3 brown cookies, 2 red cookies, 4 yellow cookies

You go to the cafe and they said Santa hasn't bought hot cocoa today.

Clue #4: The Presents

First, write the answer on each Christmas present. Then, read what to do in the box at the bottom.

42 ÷ 7	90 ÷ 10	24 ÷ 6	12 ÷ 6	18 ÷ 6	54 ÷ 6
G	C	A	P	F	I
70 ÷ 7	48 ÷ 6	5 ÷ 5	40 ÷ 8	30 ÷ 5	21 ÷ 3
O	E	N	O	G	D

Cross out the boxes with these answers: **1, 2, 4, 6, 8, 9**

The letters that are left will reveal a message.

Santa is not around any _____.

Clue #5: Picture Decoder

Find each answer. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

72 28 10 30 32 15 24 20 63

Answers: 6×5 3×8 9×8 7×4 10×2 9×7 2×5 4×8 5×3

Letters: _____

You knock on the door and Mrs. Claus said Santa's...

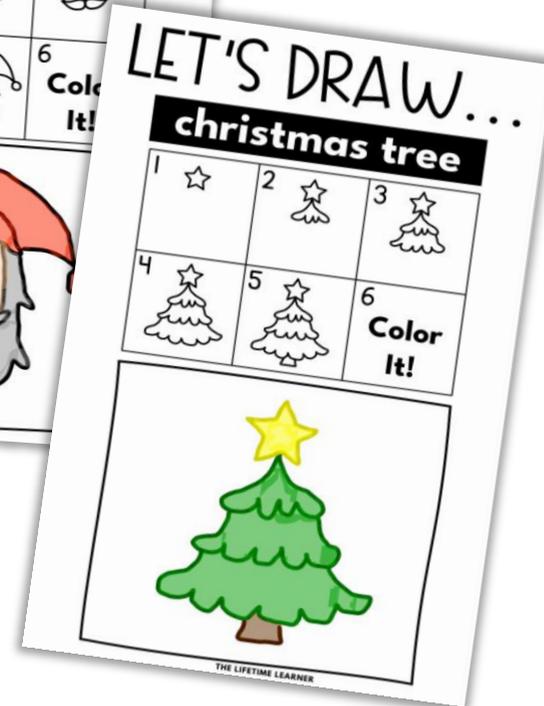
Use this decoder to help you figure out what letter is equal to each picture.

A =	G =	M =	S =	Y =
B =	H =	N =	T =	Z =
C =	I =	O =	U =	
D =	J =	P =	V =	
E =	K =	Q =	W =	
F =	L =	R =	X =	

Same clues. Same mystery. Different math!

Use the add/subtract facts to 20 mystery or the multiplication/division facts 1-12 mystery!

FAST FINISHER ACTIVITY



If students finish early, give them a certificate of completion and a directed drawing to complete while others continue working.

MATH MYSTERY BENEFITS



- No Prep
- Print and Digital Versions
- 3 & 5 Clue Options
- Extra Math Facts Mystery
- Fun and Engaging
- Easy to Differentiate
- Encourages Critical Thinking
- Aligns with Math Standards
- Perfect for Review Days

Clue #4: The Presents

First, write the answer on each Christmas present.
Then, read what to do in the box at the bottom.

• 5 tens • 3 thousands • 9 ones • 3 hundreds 63,236 G 66,359	• 9 thousands • 5 ten thousands • 2 hundreds • 8 tens • 4 ones 59,284 C 59,248	• 5 thousands • 3 ones • 2 ten thousands • 2 tens 25,823 A 25,283	• 8 ones • 3 hundreds • 5 ten thousands • 8 tens 53,388 P 53,838	• 7 hundreds • 6 ones • 2 ten thousands • 9 thousands • 3 tens 29,736 F 29,736	• 9 hundreds • 2 ten thousands • 3 tens • 1 thousands • 6 ones 29,931 I 92,936
• 5 ones • 3 hundreds • 6 ten thousands • 7 thousands • 6 tens 67,365 O 67,365	• 1 hundred • 9 tens • 7 ten thousands • 4 thousands • 3 ones 74,193 E 74,913	• 4 tens • 2 thousands • 8 ones • 2 hundreds • 6 ten thousands 52,248 N 52,284	• 9 hundreds • 3 ones • 4 thousands • 4 tens • 6 ten thousands 64,943 O 64,943	• 2 thousands • 6 ten thousands • 3 hundreds • 6 tens • 1 one 62,361 G 63,261	• 3 hundreds • 6 ones • 7 ten thousands • 4 tens • 7 thousands 77,246 D 77,346

Cross out the boxes with:
wrong answers
The letters that are left will reveal a message.

Santa is not around any
FOOD

THE LIFETIME LEARNER

In 4th grade, this works well in small groups or in partners.

WHY TEACHERS LOVE THESE!

Ordinary math worksheets can be boring and unoriginal.

You want activities that are fun and engaging, but also rigorous and meaningful to student learning.

MATH MYSTERIES ARE EXACTLY WHAT YOU'VE BEEN LOOKING FOR!

Clue #1: Fill in the Blank

full and reindeer someone by

Clue #2: Color the Reindeer

Solve each question. Circle the right answer and color in the picture.

$4 \cdot 5 = 7$ $9 \cdot 2 = 5$ $6 \cdot 3 = 4$

Clue #3: Food Sort

Figure out each answer. Write it next to each milk. Color the cookies the same color as the plate they belong on.

$13 - 7 = 7$ false $4 \cdot 5 = 10$ false $7 \cdot 4 = 11$ true $16 - 6 = 9$ false

Clue #4: The Presents

First, write the answer on each Christmas present. Then read what to do in the box at the bottom.

Clue #5: Picture Decoder

Find each answer. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Answers: $24,740$ $4,933$ $19,664$ $18,395$ $12,312$ $16,195$ $28,441$ $17,354$ $7,647$

Letters: **N O T A T H O M E**

You knock on the door and Mrs. Claus said Santa's...

Use this decoder to help you figure out what letter is equal to each picture.

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B =	H =	N =	T =	Z =
C =	I =	O =	U =	V =
D =	J =	P =	W =	X =
E =	K =	Q =	W =	X =
F =	L =	R =	X =	

The Detective Agency sends congratulations to:

Lindsay

You solved the mystery!

11/2 Date AW Presented by:

LET'S DRAW... a Santa Claus

1 2 3 4 5 6

Color it!

LET'S DRAW... christmas tree

1 2 3 4 5 6

Color it!

The North Pole

As you solve each clue, cross out the places that Santa is not located at. The place left at the end will reveal Santa's location!

REINDEER STABLES NORTH POLE CAFE GINGERBREAD HOUSE SLEIGH GARAGE SANTA'S HOUSE POLAR BEAR ORPHANAGE ELF VILLAGE TOY FACTORY

Name: _____

solve the mystery

The Case of the Missing Santa

WHAT MAKES MATH MYSTERIES UNIQUE?

Math Mysteries aren't just a copy of Reading Mysteries!

They have brand-new clues, focus on math skills, and even feature a different conclusion to the mystery.

The only thing that stays the same is the list of suspects students start with!

So, if you have both, students can play during math and then again during reading for double the fun.

Reading

Clue #1: Read It Like a Book

Color the boxes that are adjectives that describe Christmas. Cross out the boxes that do not. Read the words at the top of each box you colored from left to right like a book to solve the clue.

Santa festive	will spicy	is merry	can muddy
elf tropical	in snowy	cup slimy	his warm
pet rainy	bed cheerful	toy sour	

Write the phrase on the line. Cross the wrong place off your list.

Santa is not in his bed

Example of Clue 1

Math

Clue #1: Fill in the Blank

full	and	reindeer	someone	by	it
garage	village	you	the	sleigh	bear
toy	empty	Santa	elf	stopped	was

Draw it! Word: you Right angle the Obtuse angle it

endpoint stopped Parallel lines garage line was

Acute angle by ray and Perpendicular lines empty

Solve each problem. Write the answer. Then, write the word that goes with it. When you are done, read the words in order from top to bottom in each row to figure out the clue.

KEEP THE FUN GOING!

GRAB A **READING MYSTERY**:

Reading mysteries aren't just a copy of math. They come with fresh clues, unique reading challenges, and a new culprit, so students are solving an entirely different case!

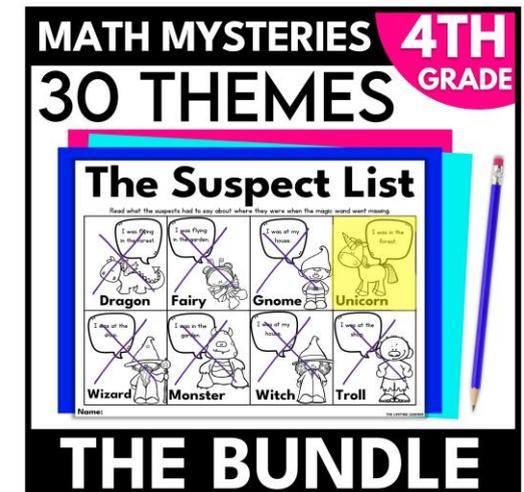


MORE **MATH MYSTERIES**:

Explore other grade levels to differentiate and keep every student engaged.



BUY A BUNDLE
TO **SAVE BIG!**



THE BUNDLE