

WHAT IS THIS?

Clue #1: Sorting Cupcakes
Color the cupcakes the same color as the box they belong in. Then, find the correct key at the bottom to solve the clue!

Clue #2: Picture Decoder
Write the answer on each line. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Clue #3: Right or Wrong?
Did the kid draw the correct shapes? Color the heart in to show if you agree.

Clue #4: The Chocolate Box
Put the correct answer in each box. Then, read what to do at the bottom.

Clue #5: Fill in the Blank

68 ft. <u>the</u>	114 windows	65 sq. ft. <u>sun</u>	54 sq. ft. <u>bush</u>	42 ft. <u>above</u>	62 ft. <u>under</u>
76 sq. ft. <u>has</u>	64 <u>door</u>	180 sq. ft. <u>one</u>	70 ft. <u>roof</u>	46 sq. ft. <u>two</u>	66 sq. ft. <u>front</u>
38 ft. <u>house</u>	104 ft. <u>tree</u>	170 sq. ft. <u>heart</u>	36 ft. <u>three</u>	27 sq. ft. <u>beside</u>	112 sq. ft. <u>party</u>

Where is the Party?
Figure out where the Valentine's Day party is being held by solving each clue.

99 Love Lane	44 Love Lane	72 Candy Road	55 Candy Road
33 Heart Way	88 Heart Way	22 Rose Street	66 Rose Street

solve the mystery

The Case of the Valentine Party

THE LIFETIME LEARNER

Students complete a series of clues to figure out where the Valentine Party is!

HOW TO PLAY

What Happened?

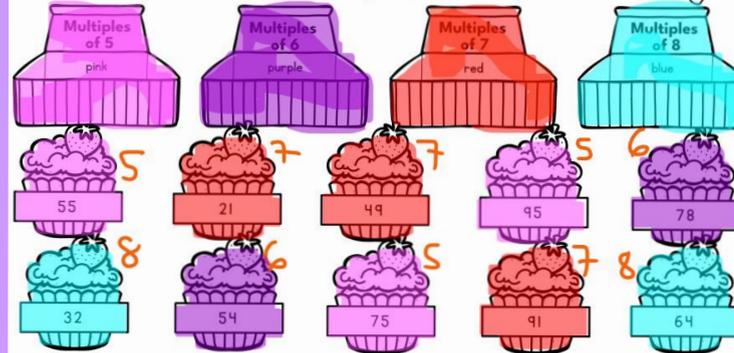
Whoops! You lost the address of the place where the Valentine's Day party is being held. Help figure out where the party is by solving each clue so you can arrive on time!

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



Clue #1: Sorting Cupcakes

Color the cupcakes the same color as the box they belong in. Then, find the correct key at the bottom to solve the clue!



- 3 pink cupcakes
- 1 purple cupcake
- 4 red cupcakes
- 2 blue cupcakes

Cross out houses with 1 tree in the front yard.

- 3 pink cupcakes
- 2 purple cupcakes
- 3 red cupcakes
- 2 blue cupcakes

Cross out houses with 2 trees in the front yard.

- 3 pink cupcakes
- 3 purple cupcakes
- 2 red cupcakes
- 2 blue cupcakes

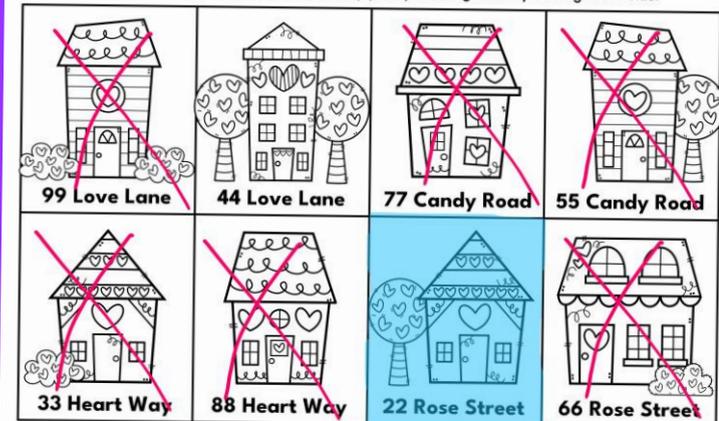
Cross out houses with any bushes in the front yard.

- 2 pink cupcakes
- 3 purple cupcakes
- 2 red cupcakes
- 3 blue cupcakes

Cross out houses with windows.

Where is the Party?

Figure out where the Valentine's Day party is being held by solving each clue.



Name: _____

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

When all clues are completed, the mystery of the Valentine Party will be solved!

SKILL PRACTICE

Clue #1: Sorting Cupcakes
Color the cupcakes the same color as the box they belong in. Then, find the correct key at the bottom to solve the clue!

Multiples of 5 (pink)
Multiples of 6 (purple)
Multiples of 7 (red)
Multiples of 8 (blue)

55, 21, 32, 54

3 pink cupcakes
1 purple cupcake
4 red cupcakes
2 blue cupcakes

Clue #2: Picture Decoder
Write the answer on each line. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

286, 118, 507, 864, 1,950, 29,078, 3,738, 196, 6,445

Answers: $286 \div 26 = 11$, $864 \div 1,728 = 0.5$, $29,078 \div 7 = 4,154$, $118 \div 590 = 0.2$, $3,738 \div 89 = 42$, $507 \div 4,563 = 0.11$, $6,445 \div 5 = 1,289$, $196 \div 784 = 0.25$, $1,950 \div 30 = 65$

Letters: C A N D Y R O A D

The party is NOT on...
Use this decoder to help you figure out what letter is equal to each picture.

A = [Envelope]	G = [Globe]	M = [Mushroom]	S = [Spoon]	Y = [Yarn]
B = [Heart]	H = [House]	N = [Nose]	T = [T-shirt]	Z = [Zebra]
C = [Cupcake]	I = [Ice cream]	O = [Oval]	U = [Umbrella]	
D = [Doll]	J = [Jellybean]	P = [Pencil]	V = [Vase]	
E = [Egg]	K = [Key]	Q = [Queen]	W = [Wagon]	
F = [Fish]	L = [Lemon]	R = [Ring]	X = [X-ray]	

Clue #3: Right or Wrong?
Draw the correct shape? Color the heart in to show if you agree.

Line segment: This is part of a line that starts and stops. It has two endpoints on both sides.

Right angle: An angle that measures exactly 90 degrees.

Obtuse angle: An angle more than 90 degrees.

66 Rose Street.
99 Love Lane.
33 Heart Way.
22 Rose Street.

- Geometry
- Factors & Multiples
- Add & Subtract to 100,000
- Area and Perimeter
- Multi-Digit Multiplication
- Long Division
- Valentine-Themed
- Error Analysis Practice

All clues focus on reviewing 4th grade math skills!

MULTIPLE VERSIONS



Print & Digital Forms

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

Clue #3: Right or Wrong?
Did the kid draw the correct shape? Color the heart in to show if you agree.

3 Clue Version

1 Correct = Cross out 77 Candy Road.
2 Correct = Cross out 44 Love Lane.
3 Correct = Cross out 55 Candy Road.
4 Correct = Cross out 88 Heart Way.

5 Correct = Cross out 66 Rose Street.
6 Correct = Cross out 99 Love Lane.
7 Correct = Cross out 33 Heart Way.
8 Correct = Cross out 22 Rose Street.

Clue #1: Sorting Cupcakes
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Clue #4: The Chocolate Box
Put the correct answer in each box. Then, read what to do at the bottom.

Clue #5: Fill in the Blank

68 ft. ^{the}	114 windows	65 sq. ft. ^{sun}	54 sq. ft. ^{bush}	42 ^{above}	62 ft. ^{under}
76 ^{has} sq. ft.	64 ^{door} sq. ft.	180 ^{one} sq. ft.	70 ft. ^{two}	46 sq. ft. ^{front}	66 ^{front} sq. ft.
38 ft. ^{house}					112 ^{partly} sq. ft.

5 Clue Version

Answer & Word:
68 ft. ^{the}
114 windows
65 sq. ft. ^{sun}
54 sq. ft. ^{bush}
42 ^{above}
62 ft. ^{under}
76 ^{has} sq. ft.
64 ^{door} sq. ft.
180 ^{one} sq. ft.
70 ft. ^{two}
46 sq. ft. ^{front}
66 ^{front} sq. ft.
38 ft. ^{house}
112 ^{partly} sq. ft.

There are cupcakes at the Valentine's Party. They fit on a 8 ft long and 13 ft long yard. What is the perimeter of the envelope?
Sandy planted red flowers on a 8 ft wide and 13 ft long yard. What is the perimeter of the yard?
Marty bought red velvet cupcakes and placed them in a 14 ft wide and 8 ft long table. What is the perimeter of the table?

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: Sorting Cupcakes
Color the cupcakes the same color as the box they belong in. Then, find the correct key at the bottom to solve the clue!

Multiples of 5 pink	Multiples of 6 purple	Multiples of 7 red	Multiples of 8 blue
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55, 21, 49, 95, 78, 32, 54, 75, 91

- 3 pink cupcakes
- 1 purple cupcake
- 4 red cupcakes
- 2 blue cupcakes

Cross out houses with 1 tree in the front yard.

- 3 pink cupcakes
- 2 purple cupcakes
- 3 red cupcakes
- 2 blue cupcakes

Cross out houses with 2 trees in the front yard.

- 3 pink cupcakes
- 3 purple cupcakes
- 2 red cupcakes
- 2 blue cupcakes

Cross out houses with any bushes in the front yard.

- 2 pink cupcakes
- 3 purple
- 2 red cup
- 3 blue cup

Cross out houses with windows.

Clue #1: Sorting Cupcakes
Color the cupcakes the same color as the box they belong in. Then, find the correct key at the bottom to solve the clue!

Multiples of 5 pink	Multiples of 6 purple	Multiples of 7 red	Multiples of 8 blue
------------------------	--------------------------	-----------------------	------------------------

55, 21, 49, 95, 78, 32, 54, 75, 91, 64

- 3 pink cupcakes
- 1 purple cupcake
- 4 red cupcakes
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Cross out houses with 1 tree in the front yard.

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- 2 purple cupcakes
- 3 red cupcakes
- 2 blue cupcakes

Cross out houses with 2 trees in the front yard.

- 3 pink cupcakes
- 3 purple cupcakes
- 2 red cupcakes
- 2 blue cupcakes

Cross out houses with any bushes in the front yard.

- 2 pink cupcakes
- 3 purple cupcakes
- 2 red cupcakes
- 3 blue cupcakes

Cross out houses with windows.

Short & Long Options

2 MATH FACT OPTIONS!

Where is the Party?
Figure out where the Valentine's Day party is being held by solving each clue.

99 Love Lane	44 Love Lane	77 Candy Road	55 Candy Road
33 Heart Way	88 Heart Way	22 Rose Street	66 Rose Street

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Find each answer. Color the cupcakes the same color as the box they belong in. Then, find the correct key at the bottom to solve the clue.

Clue #2: Picture Decoder
Write the answer on each line. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Clue #3: Right or Wrong?
Is the answer correct? Color the heart in to show if you agree.

5+5=10	11+5=15	8+9=17
2+8=9	16	16+2=18
10	10+6=16	4+9=13
7+5=12	3+8=12	

Clue #4: The Chocolate Box
Put the correct answer in each box. Then, read what to do at the bottom.

12-6	54-6	30-10	5-5	56-7
X 2	X 9	X 7	X 3	O 8
42-7	8-8	45-9	100-10	8-2
X 6	X 1	N 5	E 10	X 4

Clue #5: Fill in the Blank
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.

7 the	81 windows	10 sun	30 bush	72 above	64 under
3 has	9 door	36 one	70 roof	56 two	40 front
50 house	27 tree	5 heart	8 three	12 beside	6 party

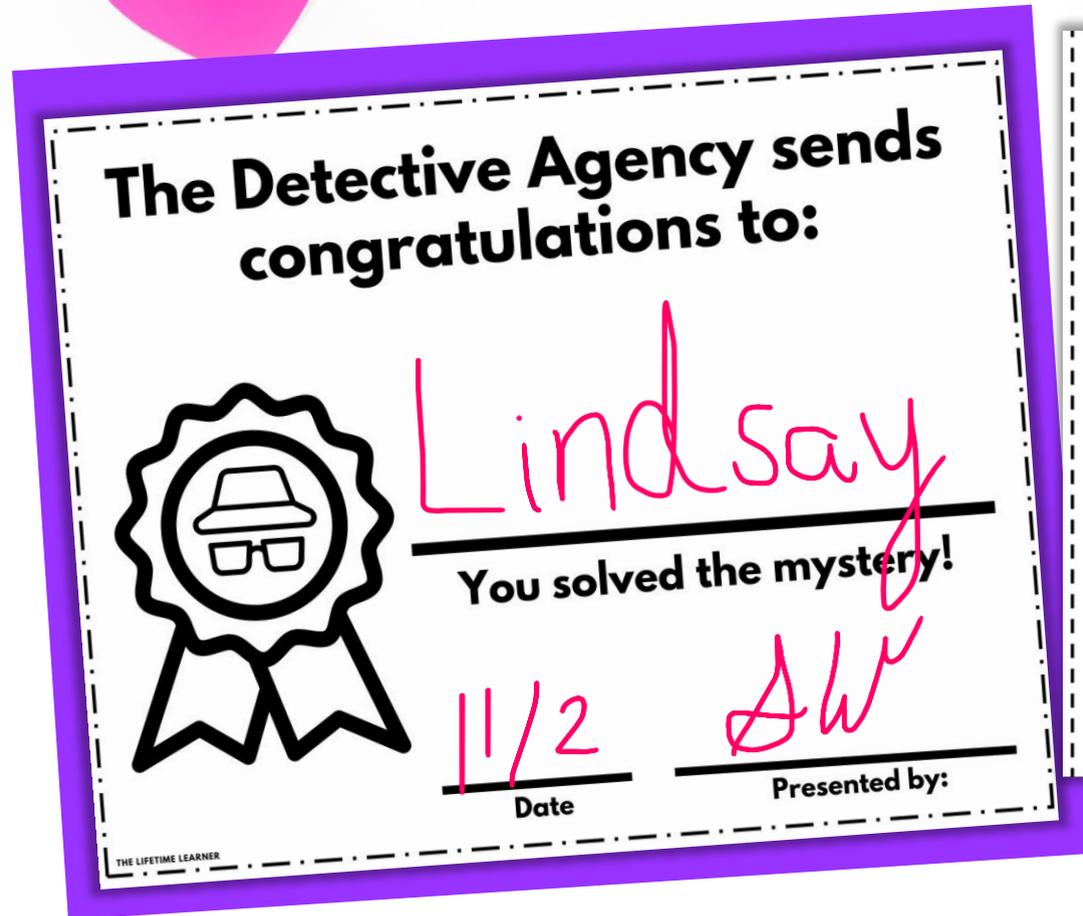
Answer: Word

48 ÷ 8 = 6 Party	6 × 6 = 36 one	49 ÷ 7 = 7 the
5 × 10 = 50 house	15 ÷ 3 = 5 heart	10 × 4 = 40 front
27 ÷ 9 = 3 has	8 × 9 = 72 above	63 ÷ 7 = 9 door

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 Chocolate Box 

Put the correct answer in each box. Then, read what to do at the bottom.

54,986 T	7,83,239 H	27,804 W	95,817 R	36,752 O
27,375 T	69,041 H	62,935 W	52,176 R	37,490 O
19,746 F	49,824 E	7,284 N	58,227 E	26,347 R

Cross out the boxes with the following answers:
82361, 68367, 90739, 14198,
43641, 28780, 37933
The letters that are left will reveal a message.

The party is not being held at a house
with one bush.

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!

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76 sq. ft.	64 sq. ft.	180 sq. ft.	70 ft.	46 sq. ft.	66 sq. ft.
38 ft.	104 ft.	170 sq. ft.	36 ft.	27 sq. ft.	112 sq. ft.

Answer & Word: **112 Party**
Answer & Word: **180 one**
Answer & Word: **65 the**
Answer & Word: **38 house**
Answer & Word: **170 heart**
Answer & Word: **66 front**
Answer & Word: **76 has**
Answer & Word: **42 above**
Answer & Word: **64 door**

The Detective Agency sends congratulations to:

Lindsay

You solved the mystery!

11/2 **AW**

Date Presented by:

LET'S DRAW...
a cupcake

LET'S DRAW...
an envelope

Where is the Party?
Figure out where the Valentine's Day party is being held by solving each clue.

99 Love Lane	44 Love Lane	77 Candy Road	55 Candy Road
33 Heart Way	88 Heart Way	22 Rose Street	66 Rose Street

Name: _____

solve the mystery

The Case of the Valentine Party

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: Color the Chocolates

Fill in the blank with the missing adverb. Color in each chocolate box. Then, read the bottom.

She signed the Valentine cards right as the bell _____	The children decorated the mailbox _____ with _____	The teacher read the poem _____ to _____ during the class.	The dove landed on the balcony _____ during the ceremony.	The waiter carried the dessert tray _____ to _____ the couple's table.	The musician played the song _____ on _____ his guitar.
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What color boxes do you see? Find the key that matches for your next hint!

<ul style="list-style-type: none">1 pink box2 purple boxes2 red boxes1 blue box The party house does not have <u>three</u> windows.	<ul style="list-style-type: none">1 pink box2 purple boxes2 red boxes1 blue box The party house does not have <u>four</u> windows.	<ul style="list-style-type: none">1 pink box2 purple boxes2 red boxes1 blue box The party house does not have <u>five</u> windows.	<ul style="list-style-type: none">1 pink box2 purple boxes2 red boxes1 blue box The party house does not have <u>six</u> windows.
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Example of Clue 1

Math

Clue #1: Sorting Cupcakes

Color the cupcakes the same color as the box they belong in. Then, find the correct key at the bottom to solve the clue!

Multiples of 5 pink	Multiples of 6 purple	Multiples of 7 red	Multiples of 8 blue
------------------------	--------------------------	-----------------------	------------------------

5 7 7 5 6
21 49 95 78
8 6 5 7 8
54 75 91 64

<ul style="list-style-type: none">3 pink cupcakes1 purple cupcake4 red cupcakes2 blue cupcakes Cross out houses with 1 tree in the front yard.	<ul style="list-style-type: none">3 pink cupcakes2 purple cupcakes3 red cupcakes2 blue cupcakes Cross out houses with 2 trees in the front yard.	<ul style="list-style-type: none">3 pink cupcakes3 purple cupcakes2 red cupcakes2 blue cupcakes Cross out houses with any bushes in the front yard.	<ul style="list-style-type: none">2 pink cupcakes3 purple cupcakes2 red cupcakes3 blue cupcakes Cross out houses with windows.
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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!

