

WHAT IS THIS?



Clue #1: 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 #2: Error Analysis
Check the answers for each location. Put a check or an X next to each answer.

Clue #3: Detective Report
The theme park is my favorite place to go, and I've been there $\frac{3}{10} = \frac{32}{100}$ times. Today, I went there with $\frac{62}{100}$.

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

Clue #5: Descrambler
Solve each box. Then, read what to do at the bottom.

Place the correct letter on top of each matching answer.
The cotton candy is at a ride where you can:
C O N T R O L I T

$\frac{77}{100}$	$\frac{96}{100}$	$\frac{81}{100}$	$\frac{98}{100}$	$\frac{49}{100}$	$\frac{62}{100}$	$\frac{45}{100}$	$\frac{58}{100}$	$\frac{23}{100}$
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solve the mystery

The Case of the Missing Cotton Candy

THE LIFETIME LEARNER

Where's the Cotton Candy?

 Roller Coaster	 Ball Toss	 Popcorn Cart	 Ticket Booth
 Pirate Ship	 Merry-Go-Round	 Ferris Wheel	 Bumper Cars

Name: _____

THE LIFETIME LEARNER

Students complete a series of clues to figure out where the cotton candy is!

HOW TO PLAY

What Happened?

Oh no! You accidentally left your cotton candy somewhere in the theme park and can't find it. Now, it's your job to search the park and find out where it is. Solve each clue to figure out the mystery. Every time you solve a clue, you will get closer to discovering where the cotton candy is! Good luck!

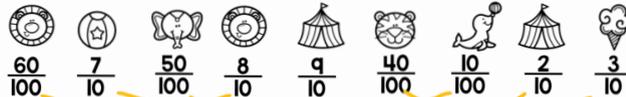
1. Take a list of places and then start solving each clue.
2. Each time you solve a clue, you will get closer to discovering where the cotton candy is.
3. Cross out wrong places each time you find out new information. Good luck!



THE LIFETIME LEARNER

Clue #1: 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.



Answers: $\frac{8}{10}$, $\frac{10}{100}$, $\frac{2}{10}$, $\frac{66}{100}$, $\frac{3}{10}$, $\frac{50}{100}$, $\frac{9}{10}$, $\frac{7}{10}$, $\frac{40}{100}$
 $\frac{80}{100}$, $\frac{1}{10}$, $\frac{20}{100}$, $\frac{6}{10}$, $\frac{30}{100}$, $\frac{5}{10}$, $\frac{90}{100}$, $\frac{70}{100}$, $\frac{4}{10}$

Letters: N O A N I M A L S

The cotton candy is somewhere with:

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 =	

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

Where's the Cotton Candy?

Roller Coaster	Ball Toss	Popcorn Cart	Ticket Booth
Pirate Ship	Merry-Go-Round	Ferris Wheel	Bumper Cars

Name: _____

THE LIFETIME LEARNER

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

When all clues are completed, the mystery of the cotton candy will be solved!

SKILL PRACTICE

Clue #1: 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.



$$\frac{60}{100} \quad \frac{7}{10} \quad \frac{50}{100}$$

Answers: $\frac{8}{10}$ $\frac{10}{100}$
 $\frac{80}{100}$ $\frac{1}{10}$

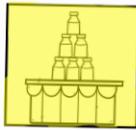
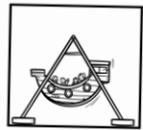
Letters: N O

The cotton candy is somewhere with:

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

Clue #2: Error Analysis

Check the answers for each location. Put a check or an X next to each answer.



$\frac{25}{100} \cdot \frac{3}{10} = \frac{35}{100}$

$\frac{7}{100} \cdot \frac{7}{10} = \frac{77}{100}$

$\frac{61}{100} \cdot \frac{3}{10} = \frac{91}{100}$

$\frac{4}{100} \cdot \frac{2}{10} = \frac{24}{100}$

$\frac{5}{100} \cdot \frac{6}{10} = \frac{56}{100}$

$\frac{6}{100} \cdot \frac{3}{10} = \frac{63}{100}$

$\frac{46}{100} \cdot \frac{5}{10} = \frac{96}{100}$

$\frac{9}{100} \cdot \frac{4}{10} = \frac{49}{100}$

$\frac{2}{100} \cdot \frac{2}{10} = \frac{4}{100}$

$\frac{35}{100} \cdot \frac{1}{10} = \frac{36}{100}$

$\frac{37}{100} \cdot \frac{6}{10} = \frac{42}{100}$

$\frac{58}{100} \cdot \frac{1}{10} = \frac{68}{100}$

$\frac{9}{100} \cdot \frac{7}{10} = \frac{79}{100}$

$\frac{4}{100} \cdot \frac{5}{10} = \frac{54}{100}$

$\frac{64}{100} \cdot \frac{2}{10} = \frac{84}{100}$

The location with the most correct answers is NOT where the cotton candy is.

Clue #3: Detective Report

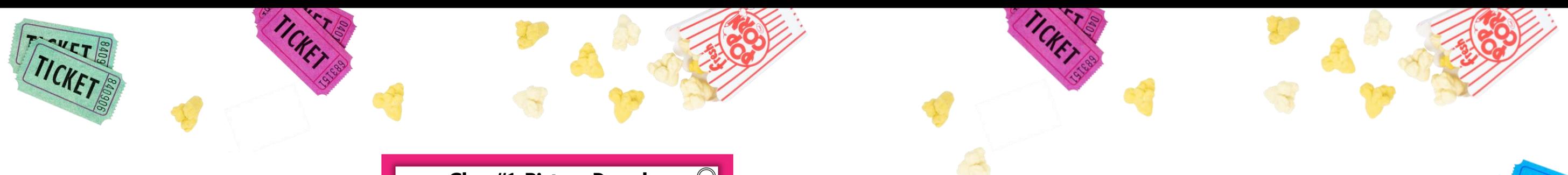
My favorite place to go, and I've been there $\frac{3}{10} \cdot \frac{32}{100} = \frac{62}{100}$ times. Today, I went there with $\frac{29}{10} \cdot \frac{6}{10} = \frac{89}{100}$ ride tickets. Then, we went on a snack break and bought $\frac{1}{10} \cdot \frac{9}{100} = \frac{19}{100}$ items. We went on the bumper cars and hit each car $\frac{4}{100} \cdot \frac{5}{10} = \frac{54}{100}$ times. We went on the Ferris wheel and stayed at the top for $\frac{64}{100} \cdot \frac{2}{10} = \frac{84}{100}$ minutes.

I=89/100 E=19/100
O=47/100 R=35/100
A=64/100 T=62/100
D=98/100
N=73/100

- Add Fraction Denominators of 10 & 100
- Theme Park-Themed
- Error Analysis Practice

All clues focus on reviewing 4th grade skills!

MULTIPLE VERSIONS



Print & Digital Forms



Clue #1: 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 #2: Error Analysis
Check the answers for each location. Put a check or an X next to each answer.

Clue #3: Detective Report
The theme park is my favorite place to go, and I've been there $\frac{3}{10} \cdot \frac{32}{100}$ times. Today, I went there with $\frac{4}{100} \cdot \frac{5}{10}$ friends. First, we went to the ticket booth and got $\frac{23}{100} \cdot \frac{6}{10}$ ride tickets. Then, we went on the fastest roller coaster and hit each popcorn bucket and hit each other $\frac{58}{100} \cdot \frac{4}{10}$ times. I waited $\frac{7}{10} \cdot \frac{9}{100}$ for the top for $\frac{19}{100}$ wait to come back another $\frac{10}{100}$ times. $0 = 47/100$ $R = 35/100$
 $A = 64/100$ $T = 62/100$
 $D = 98/100$
 $N = 73/100$

The cotton candy wasn't left in a place that is:

NOT A RIDE

Figure out each answer. Then, use the decoder to figure out the clue.

3 Clue Version

Clue #1: 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 #2: Error Analysis
Check the answers for each location. Put a check or an X next to each answer.

Clue #3: Detective Report
The theme park is my favorite place to go, and I've been there $\frac{3}{10} \cdot \frac{32}{100}$ times. Today, I went there with $\frac{4}{100} \cdot \frac{5}{10}$ friends. First, we went to the ticket booth and got $\frac{23}{100} \cdot \frac{6}{10}$ ride tickets. Then, we went on the fastest roller coaster and hit each popcorn bucket and hit each other $\frac{58}{100} \cdot \frac{4}{10}$ times. I waited $\frac{7}{10} \cdot \frac{9}{100}$ for the top for $\frac{19}{100}$ wait to come back another $\frac{10}{100}$ times. $0 = 47/100$ $R = 35/100$
 $A = 64/100$ $T = 62/100$
 $D = 98/100$
 $N = 73/100$

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

Clue #5: Descrambler
Solve each box. Then, read what to do at the bottom.

CARNIVAL

Place the correct letter on top of each matching answer.
The cotton candy is at a ride where you can:

CONTROL IT

$\frac{77}{100}$ $\frac{96}{100}$ $\frac{81}{100}$ $\frac{98}{100}$ $\frac{44}{100}$ $\frac{62}{100}$ $\frac{45}{100}$ $\frac{58}{100}$ $\frac{23}{100}$

5 Clue Version

Clue #2: Error Analysis
Check the answers for each location. Put a check or an X next to each answer.

The location with the most correct answers is NOT where the cotton candy is.

$\frac{25}{100} \cdot \frac{3}{10} = \frac{35}{100}$
 $\frac{6}{100} \cdot \frac{3}{10} = \frac{63}{100}$
 $\frac{37}{100} \cdot \frac{6}{10} = \frac{42}{100}$
 $\frac{7}{100} \cdot \frac{7}{10} = \frac{77}{100}$
 $\frac{46}{100} \cdot \frac{5}{10} = \frac{96}{100}$
 $\frac{58}{100} \cdot \frac{1}{10} = \frac{68}{100}$
 $\frac{61}{100} \cdot \frac{3}{10} = \frac{9}{100}$
 $\frac{9}{100} \cdot \frac{4}{10} = \frac{49}{100}$
 $\frac{9}{100} \cdot \frac{7}{10} = \frac{79}{100}$
 $\frac{4}{100} \cdot \frac{2}{10} = \frac{24}{100}$
 $\frac{2}{100} \cdot \frac{2}{10} = \frac{4}{100}$
 $\frac{4}{100} \cdot \frac{5}{10} = \frac{54}{100}$
 $\frac{5}{100} \cdot \frac{6}{10} = \frac{56}{100}$
 $\frac{35}{100} \cdot \frac{1}{10} = \frac{36}{100}$
 $\frac{64}{100} \cdot \frac{2}{10} = \frac{84}{100}$

Clue #2: Error Analysis
Check the answers for each location. Put a check or an X next to each answer.

The location with the most correct answers is NOT where the cotton candy is.

$\frac{25}{100} \cdot \frac{3}{10} = \frac{35}{100}$
 $\frac{6}{100} \cdot \frac{3}{10} = \frac{63}{100}$
 $\frac{37}{100} \cdot \frac{6}{10} = \frac{42}{100}$
 $\frac{7}{100} \cdot \frac{7}{10} = \frac{77}{100}$
 $\frac{46}{100} \cdot \frac{5}{10} = \frac{96}{100}$
 $\frac{58}{100} \cdot \frac{1}{10} = \frac{68}{100}$
 $\frac{61}{100} \cdot \frac{3}{10} = \frac{9}{100}$
 $\frac{9}{100} \cdot \frac{4}{10} = \frac{49}{100}$
 $\frac{9}{100} \cdot \frac{7}{10} = \frac{79}{100}$
 $\frac{4}{100} \cdot \frac{2}{10} = \frac{24}{100}$
 $\frac{2}{100} \cdot \frac{2}{10} = \frac{4}{100}$
 $\frac{4}{100} \cdot \frac{5}{10} = \frac{54}{100}$
 $\frac{5}{100} \cdot \frac{6}{10} = \frac{56}{100}$
 $\frac{35}{100} \cdot \frac{1}{10} = \frac{36}{100}$
 $\frac{64}{100} \cdot \frac{2}{10} = \frac{84}{100}$

Short & Long Options

2 MATH FACT OPTIONS!

Where's the Cotton Candy?

 Roller Coaster	 Ball Toss	 Popcorn Cart	 Ticket Booth
 Pirate Ship	 Merry-Go-Round	 Ferris Wheel	 Bumper Cars

Name: _____

Clue #1: 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.

Answers: 13 14 11 16 4 17 10 19
 5×8 $12 \div 2$ 4×7 $10 \div 6$ $1 \div 3$ 9×8 5×5 3×6

Letters: N O A N I M A I

The cotton candy is somewhere with: _____
Use this decoder to help you figure out what letter is equal to each picture.

Clue #2: Error Analysis

Check the answers for each location. Put a check or an X next to each answer.

<input checked="" type="checkbox"/> $9 - 6 = 12$	<input checked="" type="checkbox"/> $9 - 1 = 10$	<input checked="" type="checkbox"/> $8 - 3 = 15$
<input checked="" type="checkbox"/> $11 - 2 = 9$	<input checked="" type="checkbox"/> $3 - 4 = 8$	<input checked="" type="checkbox"/> $11 - 7 = 4$
<input checked="" type="checkbox"/> $8 - 4 = 5$	<input checked="" type="checkbox"/> $15 - 6 = 9$	<input checked="" type="checkbox"/> $19 - 10 = 9$
<input checked="" type="checkbox"/> $17 - 3 = 14$	<input checked="" type="checkbox"/> $1 - 1 = 2$	<input checked="" type="checkbox"/> $11 - 2 = 8$

Clue #3: Detective Report

The theme park is my favorite place to go, and I've been there $6 + 12$ 18 times. Today, I went there with $2 + 7$ 9 friends. First, we went to the ticket booth and got $10 + 9$ 19 ride tickets. Then, we went on the fastest rollercoaster and screamed $14 + 6$ 20 times. We took a snack break and bought $5 + 3$ 8 popcorn buckets from the popcorn cart. Later, my friends and I went on the bumper cars and hit each other $8 + 7$ 15 times. Near the end of the day, we went on the Ferris wheel and stayed at the top for 3 3 minutes. I had such a great day at the fair, and I can't come back another $1 + 4$ 5 times.

The cotton candy wasn't left in a place that is: _____

I=19 N=20
O=16 E=8
R=5
T=18

Clue #4: The Roller Coaster

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

K $49 \div 7$ 7	X $32 \div 8$ 4	X $27 \div 3$ 9	X $45 \div 9$ 5
X $15 \div 5$ 3	X $24 \div 3$ 8	X $70 \div 7$ 10	X $5 \div 5$ 1
X $16 \div 8$ 2	X $35 \div 7$ 5	X $54 \div 9$ 6	X $90 \div 10$ 9

Cross out the boxes with the following answers: **1, 2, 5, 7, 9, 10**
The letters that are left will reveal a message.

The cotton candy is somewhere near a ride that is NOT **Fast**.

Clue #5: Descrambler

Solve each box. Then, read what to do at the bottom.

Place the correct letter on top of each matching answer.
The cotton candy is at a ride where you can: **CONTROL IT**

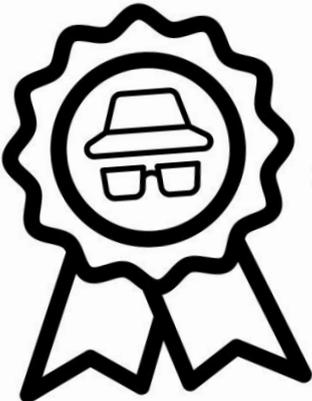
Same clues. Same mystery. Different math!

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

FAST FINISHER ACTIVITY



The Detective Agency sends congratulations to:



Lindsay

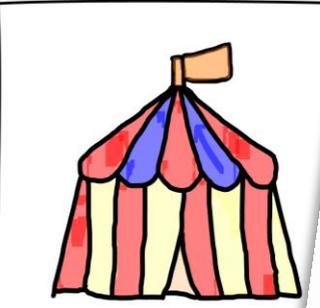
You solved the mystery!

11/2 **Date** *AW* **Presented by:**

THE LIFETIME LEARNER

LET'S DRAW...
a carnival tent

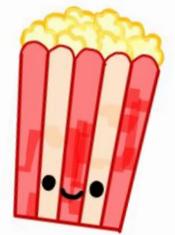
1	2	3
4	5	6



THE LIFETIME LEARNER

LET'S DRAW...
popcorn

1	2	3
4	5	6



THE LIFETIME LEARNER

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 Roller Coaster 

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

$\frac{6 \cdot 2}{10 \cdot 100}$ X $\frac{62}{100}$	$\frac{25 \cdot 5}{100 \cdot 10}$ F $\frac{75}{100}$	$\frac{2 \cdot 1}{10 \cdot 10}$ X $\frac{30}{100}$	$\frac{15 \cdot 7}{100 \cdot 100}$ X $\frac{85}{100}$
$\frac{5 \cdot 3}{10 \cdot 10}$ A $\frac{80}{100}$	$\frac{5 \cdot 33}{10 \cdot 100}$ S $\frac{83}{100}$	$\frac{49 \cdot 5}{100 \cdot 10}$ X $\frac{99}{100}$	$\frac{3 \cdot 24}{10 \cdot 100}$ X $\frac{54}{100}$
$\frac{37 \cdot 6}{100 \cdot 10}$ X $\frac{97}{100}$	$\frac{2 \cdot 18}{10 \cdot 100}$ X $\frac{38}{100}$	$\frac{51 \cdot 3}{100 \cdot 10}$ T $\frac{81}{100}$	$\frac{4 \cdot 3}{10 \cdot 10}$ X $\frac{70}{100}$

Cross out the boxes with the following answers:
• $\frac{62}{100}$ • $\frac{99}{100}$ • $\frac{70}{100}$ • $\frac{54}{100}$
• $\frac{85}{100}$ • $\frac{30}{100}$ • $\frac{38}{100}$ • $\frac{97}{100}$
The letters that are left will reveal a message.

The cotton candy is somewhere near a ride that is NOT Fast.

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: Find It!
Solve each question. Circle the boxes that equal 15.
Read the words you circled from left to right like a book to solve the clue.

Clue #2: Error Analysis
Check the answers for each location. Put a check or an X next to each answer.

Clue #3: Detective Report
The theme park is my favorite place to go, and I've been there $6+6$ times. Today, I went there with 12 .

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

Clue #5: Descrambler
Solve each box. Then, read what to do at the bottom.

Place the correct letter on top of each matching answer.
The cotton candy is at a ride where you can:

$\frac{49}{100}$	$\frac{27}{100}$	$\frac{67}{100}$	$\frac{22}{100} + \frac{4}{100}$	$\frac{62}{100}$	$\frac{23}{100}$
$\frac{14}{100} + \frac{3}{100}$	$\frac{3}{100} + \frac{15}{100}$	$\frac{45}{100}$	$\frac{3}{100} + \frac{28}{100}$	$\frac{58}{100}$	$\frac{81}{100}$
$\frac{4}{100} + \frac{6}{100}$	$\frac{78}{100} + \frac{2}{100} + \frac{98}{100}$	$\frac{58}{100}$	$\frac{31}{100} + \frac{5}{100}$	$\frac{58}{100}$	$\frac{23}{100}$
$\frac{77}{100}$	$\frac{96}{100}$	$\frac{81}{100}$	$\frac{98}{100}$	$\frac{49}{100}$	$\frac{62}{100}$
$\frac{45}{100}$	$\frac{45}{100}$	$\frac{45}{100}$	$\frac{45}{100}$	$\frac{45}{100}$	$\frac{45}{100}$

The Detective Agency sends congratulations to:

Lindsay

You solved the mystery!

Date: $11/2$ Presented by: **AW**

LET'S DRAW...
a carnival tent

LET'S DRAW...
popcorn

Where's the Cotton Candy?

Roller Coaster	Ball Toss	Popcorn Cart	Ticket Booth
Pirate Ship	Merry-Go-Round	Ferris Wheel	Bumper Cars

Name: _____

solve the mystery

The Case of the Missing Cotton Candy

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

Example of Clue 1

Math

Clue #1: The Theme Park

Look at the sentences for the Ferris Wheel and Ticket Booth. Circle the side that has correct part of speech underlined. If the Ferris Wheel has more circles, cross out any rides. If the Ticket Booth has more circles, cross out any places near food.

 The roller coaster zoomed down the track, and everyone screamed!	 The roller coaster zoomed down the track, and everyone screamed!	 The Ferris wheel stopped at the very top, and we could see the whole park.	 The Ferris wheel stopped at the very top, and we could see the whole park.
 A splash of water soaked us as the log ride hit the bottom suddenly.	 A splash of water soaked us as the log ride hit the bottom suddenly.	 The smell of popcorn and cotton candy filled the air.	 The smell of popcorn and cotton candy filled the air.
 Bright lights flashed while the music played loudly all around.	 Bright lights flashed while the music played loudly all around.	 They laughed as the bumper cars crashed into each other.	 They laughed as the bumper cars crashed into each other.
 The spinning teacups twirled so fast we felt dizzy.	 The spinning teacups twirled so fast we felt dizzy.	 Fireworks exploded above the castle and lit up the sky.	 Fireworks exploded above the castle and lit up the sky.

Clue #1: 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.

$\frac{60}{100}$	$\frac{7}{10}$	$\frac{50}{100}$	$\frac{8}{10}$	$\frac{9}{10}$	$\frac{40}{100}$	$\frac{10}{100}$	$\frac{2}{10}$	$\frac{3}{10}$
$\frac{8}{10}$	$\frac{10}{100}$	$\frac{2}{10}$	$\frac{60}{100}$	$\frac{3}{10}$	$\frac{50}{100}$	$\frac{9}{10}$	$\frac{7}{10}$	$\frac{40}{100}$
$\frac{80}{100}$	$\frac{1}{10}$	$\frac{20}{100}$	$\frac{6}{10}$	$\frac{30}{100}$	$\frac{5}{10}$	$\frac{90}{100}$	$\frac{70}{100}$	$\frac{4}{10}$
N	O	A	N	I	M	A	L	S

The cotton candy is somewhere with:

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 =	

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!

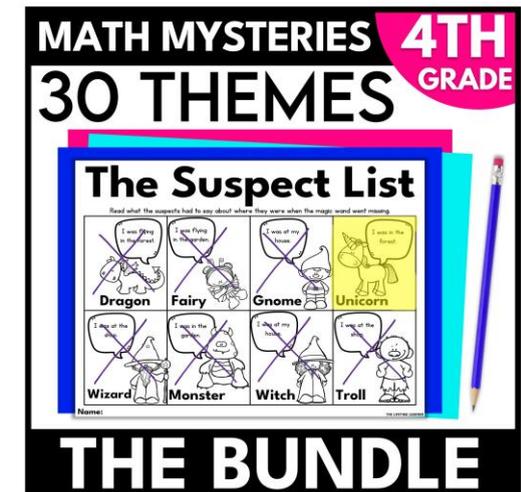


MORE **MATH MYSTERIES**:

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



**BUY A BUNDLE
TO SAVE BIG!**



THE BUNDLE