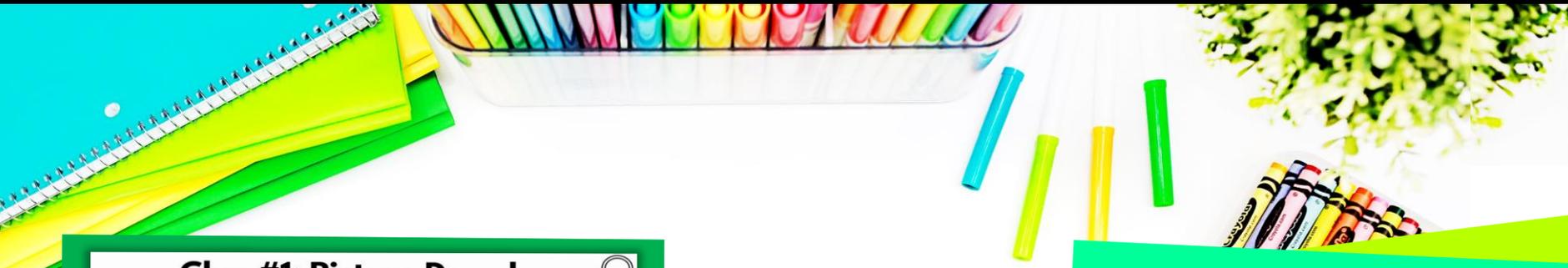


# WHAT IS THIS?



**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: Who Has More?**  
Circle each correct answer. Which location has more correct answers? That location isn't where the gold is.

**Clue #3: The Rainbow**  
You have 48,025 green hats. You find 23,835 more. How many do you have now?  
There are 72,387 gold coins. How many more do you need to have 100,000 gold coins?  
The first year you were born, you were 1 year old. How old are you now?

**Clue #4: Right or Wrong?**  
Color the hat green if the answer is correct. Color the hat red if it's wrong.

**Clue #5: Fill in the Blank**

	golden		pot		is		trees		from		in
	the		grass		isn't		missing		field		have
	in		gold		forest		outside		of		not

Answer: Word: Acute angle **The** Line segment **of** ray **in**  
line **missing** Parallel lines **gold** Intersecting lines **a**  
Right angle **pot** Perpendicular lines **is** Obtuse angle **forest**

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.

**solve the mystery**

**The Case of the Missing Gold Coins**

THE LIFETIME LEARNER

**Where is the Gold?**  
Figure out where the leprechaun hid the gold by solving the clues.

Locations marked with red X's: RAINBOW FALLS, LUCKY CHARM INN, SILVER BRIDGE, RAINBOW RIVER, GOLDEN FIELDS, LEPRECHAUN VILLAGE, TREASURE MOUNTAIN.

Location circled in pink: CLOVER FOREST.

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

THE LIFETIME LEARNER

Students complete a series of clues to figure out where the missing coins are!

# HOW TO PLAY



## What Happened?

The pot of gold at the end of the rainbow is missing! A leprechaun found it and hid it somewhere on the map. Now, it's up to you to figure out where they hid the gold.

1. Take a map and then start solving each clue.
2. Each time you solve a clue, you will get closer to discovering where the gold is.
3. Cross out wrong locations 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.

					
3,024	2,496	2,940	969	2,538	3,150

Answers: 2,496 3,150 969 3,024 2,538 2,940

$39 \times 64$	$75 \times 42$	$56 \times 9$	$48 \times 63$	$27 \times 94$	$84 \times 35$
----------------	----------------	---------------	----------------	----------------	----------------

Letters: H O U S E S

The missing gold is not near any... 

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.

THE LIFETIME LEARNER

## Where is the Gold?

Figure out where the leprechaun hid the gold by solving the clues.



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 missing coins 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.

3,024      2,496

Answers:  $\frac{2,496}{39 \times 64}$        $\frac{3,150}{75 \times 42}$

Letters: H      O

The missing gold is not near any...

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

## Clue 2: Who Has More?

Circle each correct answer. Which location has more correct answers? That location isn't where the gold is.

$3\frac{3}{4}$	$\frac{5}{8} \times 6$	$3\frac{2}{3}$	$2\frac{1}{2}$	$\frac{1}{2} \times 7$	$3\frac{1}{2}$
$1\frac{1}{5}$	$\frac{3}{5} \times 2$	$1\frac{2}{5}$	$3\frac{3}{4}$	$\frac{3}{4} \times 5$	$3\frac{1}{3}$
$2\frac{2}{5}$	$\frac{7}{10} \times 4$	$2\frac{4}{5}$	$5\frac{1}{3}$	$\frac{2}{3} \times 8$	$5\frac{2}{5}$
$6\frac{2}{6}$	$\frac{5}{6} \times 9$	$7\frac{1}{2}$	$2\frac{5}{8}$	$\frac{7}{8} \times 3$	$2\frac{3}{4}$

## Clue #3: The Rainbow

There are 100,000  
72,387 of them

You have that

You have 48,025 green hats. You find 23,835 more. How many do you have now?  
35,486

The first year you see 86,894 rainbows. The second year you see 51,333 rainbows. How many fewer rainbows did you see the second year?  
35,561

old coins. Your cousin has double as many as you. How many does your cousin have?  
74,252

river forest

s NOT near any

THE LIFETIME LEARNER

- Add and Subtract Mixed Numbers with Like Denominators
- 2 Digit by 2 Digit Multiplication
- Add and Subtract Word Problems to 100,000
- Geometry
- St. Patrick's Day-Themed
- Error Analysis Practice

All clues focus on reviewing 4<sup>th</sup> grade math standards!

# 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: Who Has More?**  
Circle each correct answer. Which location has more correct answers? That location isn't where the gold is.

**Clue #3: The Rainbow**  
You have 48,025 green hats. You had 23,835 more. How many do you have now?  
The forest you see 86,881 rainbows. How many do you see the rest of the year?  
There are 100,000 gold coins. How many are left?  
Marie sees 48,911 leopards on Treasure Mountain. How many more leopards does she see on Rainbow Falls?  
You have 37,026 gold coins. How many more do you have than the rest of the year?  
The forest you see 86,881 rainbows. How many do you see the rest of the year?  
There are 100,000 gold coins. How many are left?  
Marie sees 48,911 leopards on Treasure Mountain. How many more leopards does she see on Rainbow Falls?  
You have 37,026 gold coins. How many more do you have than the rest of the year?

**3 Clue Version**

Cross out the following answers:  
74252, 35486, 77113, 71860  
What word is left? Write it on the line.  
The missing gold is NOT near any bridge.

**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: Who Has More?**  
Circle each correct answer. Which location has more correct answers? That location isn't where the gold is.

**Clue #3: The Rainbow**  
You have 48,025 green hats. You had 23,835 more. How many do you have now?  
The forest you see 86,881 rainbows. How many do you see the rest of the year?  
There are 100,000 gold coins. How many are left?  
Marie sees 48,911 leopards on Treasure Mountain. How many more leopards does she see on Rainbow Falls?  
You have 37,026 gold coins. How many more do you have than the rest of the year?  
The forest you see 86,881 rainbows. How many do you see the rest of the year?  
There are 100,000 gold coins. How many are left?  
Marie sees 48,911 leopards on Treasure Mountain. How many more leopards does she see on Rainbow Falls?  
You have 37,026 gold coins. How many more do you have than the rest of the year?

**Clue #4: Right or Wrong?**  
Color the hat green if the answer is correct. Color the hat red if it's wrong.

**Clue #5: Fill in the Blank**

golden, pot, trees, from, in, the, grass, isn't, missing, field, have, in, not, Answer: Acute angle, line, Right angle, Word: in, 9, pot, Perpendicular lines, IS, forest

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 2: Who Has More?**  
Circle each correct answer. Which location has more correct answers? That location isn't where the gold is.

3  $\frac{3}{4}$  Treasure Mountain,  $\frac{5}{8} \times 6$  Rainbow Falls,  $3\frac{2}{3}$  Treasure Mountain,  $2\frac{1}{2}$  Treasure Mountain,  $\frac{1}{2} \times 7$  Rainbow Falls,  $3\frac{1}{2}$  Rainbow Falls

$1\frac{1}{5}$  Treasure Mountain,  $\frac{3}{5} \times 2$  Rainbow Falls,  $1\frac{2}{5}$  Treasure Mountain,  $3\frac{3}{4}$  Treasure Mountain,  $\frac{3}{4} \times 5$  Rainbow Falls,  $3\frac{1}{3}$  Rainbow Falls

$2\frac{2}{5}$  Treasure Mountain,  $\frac{7}{10} \times 4$  Rainbow Falls,  $2\frac{4}{5}$  Treasure Mountain,  $5\frac{1}{3}$  Treasure Mountain,  $\frac{2}{3} \times 8$  Rainbow Falls,  $5\frac{2}{5}$  Rainbow Falls

$6\frac{2}{6}$  Treasure Mountain,  $\frac{5}{6} \times 9$  Rainbow Falls,  $7\frac{1}{2}$  Treasure Mountain,  $2\frac{5}{8}$  Treasure Mountain,  $\frac{7}{8} \times 3$  Rainbow Falls,  $2\frac{3}{4}$  Rainbow Falls

**Clue 2: Who Has More?**  
Circle each correct answer. Which location has more correct answers? That location isn't where the gold is.

3  $\frac{3}{4}$  Treasure Mountain,  $\frac{5}{8} \times 6$  Rainbow Falls,  $3\frac{2}{3}$  Treasure Mountain,  $2\frac{1}{2}$  Treasure Mountain,  $\frac{1}{2} \times 7$  Rainbow Falls,  $3\frac{1}{2}$  Rainbow Falls

$1\frac{1}{5}$  Treasure Mountain,  $\frac{3}{5} \times 2$  Rainbow Falls,  $1\frac{2}{5}$  Treasure Mountain,  $3\frac{3}{4}$  Treasure Mountain,  $\frac{3}{4} \times 5$  Rainbow Falls,  $3\frac{1}{3}$  Rainbow Falls

$2\frac{2}{5}$  Treasure Mountain,  $\frac{7}{10} \times 4$  Rainbow Falls,  $2\frac{4}{5}$  Treasure Mountain,  $5\frac{1}{3}$  Treasure Mountain,  $\frac{2}{3} \times 8$  Rainbow Falls,  $5\frac{2}{5}$  Rainbow Falls

$6\frac{2}{6}$  Treasure Mountain,  $\frac{5}{6} \times 9$  Rainbow Falls,  $7\frac{1}{2}$  Treasure Mountain,  $2\frac{5}{8}$  Treasure Mountain,  $\frac{7}{8} \times 3$  Rainbow Falls,  $2\frac{3}{4}$  Rainbow Falls

**Short & Long Options**

# 2 MATH FACT OPTIONS!

## Where is the Gold?

Figure out where the leprechaun hid the gold by solving the clues.

RAINBOW FALLS  
TREASURE MOUNTAIN  
LUCK CHARM INN  
CLOVER FOREST  
LEPRECHAUN VILLAGE  
SILVER BRIDGE  
GOLDEN FIELDS  
RAINBOW RIVER

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:  $\frac{12}{5-7}$   $\frac{13}{9+4}$   $\frac{17}{15+2}$   $\frac{16}{6+0}$   $\frac{11}{4+7}$

Letters: H O U S E

### Clue 2: Who Has More?

Circle each correct answer. Which location has more correct answers? That location isn't where the gold is.

10 20-10 9 7 12-6 6  
7 14-8 6 4 7-3 5  
1 3-2 5 12 13

### Clue #4: Right or Wrong?

Color the hat green if the answer is correct. Color the hat red if it's wrong.

$36 \div 4$ 9	$15 \div 5$ 4	$60 \div 6$ 10
$72 \div 8$ 9	$20 \div 4$ 5	$4 \div 2$ 3
$42 \div 7$ 6	$16 \div 8$ 2	$45 \div 9$ 5

Which is true?  
More red hats = Cross out all places with lots of grass.  
More green hats = Cross out all cars with lots of water.

### Clue #3: The Rainbow

8+8=16 water  
2+7=9 falls  
10+8=18 bridge  
9+5=14 river  
6+4=10 forest

### 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.

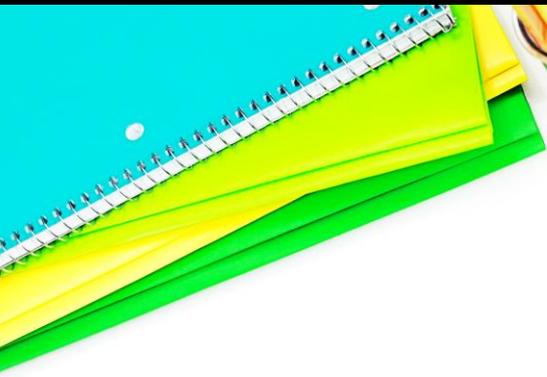
36 golden	12 gold	6 grass	22 trees	60 from	10 in
40 the	45 grass	50 sun	9 missing	42 field	3 have
21 in	48 gold	32 forest	14 outside	8 of	7 not

Answers: Word  
5x8=40 The  
24÷3=8 of  
7x3=21 in  
54÷6=9 missing  
6x8=48 gold  
42÷7=6 a  
3x4=12 pot  
30÷3=10 is  
4x8=32 forest

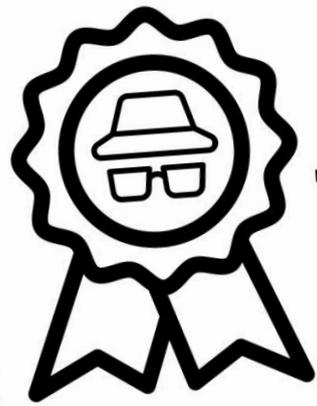
Same clues. Same mystery. Different math!

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

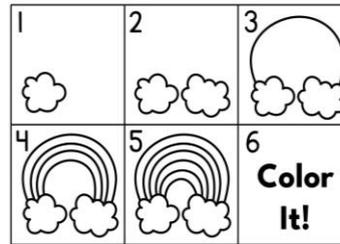
You solved the mystery!

11/2  
Date

AW  
Presented by:

LET'S DRAW...

a rainbow



THE LIFETIME LEARNER

LET'S DRAW...

a top hat



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: Right or Wrong?** 

Color the hat green if the answer is correct. Color the hat red if it's wrong.

$3\frac{7}{8} + 2\frac{5}{8}$  $6\frac{1}{2}$ 	$4\frac{5}{6} - 3\frac{3}{6}$  $1\frac{2}{3}$ $1\frac{2}{6}$ 	$1\frac{2}{3} + 5\frac{2}{3}$  $7\frac{1}{3}$ 
$8\frac{1}{3} - 2\frac{2}{3}$  $5\frac{1}{3}$ $5\frac{2}{3}$ 	$6\frac{2}{5} + 2\frac{3}{5}$  $8\frac{1}{5}$ $9$ 	$9\frac{7}{10} - 4\frac{5}{10}$  $5\frac{1}{2}$ $5\frac{1}{5}$ 
$5\frac{2}{4} + 1\frac{3}{4}$  $7\frac{1}{4}$ 	$7\frac{3}{8} - 3\frac{6}{8}$  $3\frac{5}{8}$ 	$2\frac{3}{4} + 5\frac{2}{4}$  $8\frac{1}{4}$ 

Which is true?

More red hats = Cross out all places with lots of grass.  
More green hats = Cross out all cars with lots of water.

THE LIFETIME LEARNER

In 4<sup>th</sup> 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: 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: Who Has More?**  
Circle each correct answer. Which location has more correct answers? That location isn't where the gold is.

**Clue #3: The Rainbow**  
You have 6 green hats. You have 10 more. How many do you have?

**Clue #4: Right or Wrong?**  
Color the hat green if the answer is correct. Color the hat red if it's wrong.

**Clue #5: Fill in the Blank**

Answer: Word      Answer: Word      Answer: Word

Acute angle  **The**      Line segment  **of**      ray  **in**

line  **missing**      Parallel lines  **gold**      Intersecting lines  **a**

Right angle  **pot**      Perpendicular lines  **is**      Obtuse angle  **forest**

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 Detective Agency sends congratulations to:

 **Lindsay**

You solved the mystery!

**11/2**      **AW**

Date      Presented by:

LET'S DRAW...  
**a rainbow**

1  2  3 

4  5  6  Color It!



LET'S DRAW...  
**a top hat**

1  2  3 

4  5  6  Color It!



**Where is the Gold?**  
Figure out where the leprechaun hid the gold by solving the clues.



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

**solve the mystery**



**The Case of the Missing Gold Coins**

THE LIFETIME LEARNER

# 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: Color the Kids

What part of speech are the rhyming words in each sentence? Circle the answer. Then, color in each kid.

The leprechaun did a little wiggle, and the children began	A little green gnome ran back to his home.	Sadly, the leprechaun was acting badly.	The small shamrock grew on a tall hill.	The kids make green dough and bake shamrock cookies for the party.	The silly leprechaun wore shorts on a chilly March morning.
--	--	---	---	--	---

color it red  
or it green  
or it yellow  
color it blue

adjectives - color it red  
verbs - color it green  
nouns - color it yellow  
adverbs - color it blue

adjectives - color it red  
verbs - color it green  
nouns - color it yellow  
adverbs - color it blue

adjectives - color it red  
verbs - color it green  
nouns - color it yellow  
adverbs - color it blue

adjectives - color it red  
verbs - color it green  
nouns - color it yellow  
adverbs - color it blue

adjectives - color it red  
verbs - color it green  
nouns - color it yellow  
adverbs - color it blue

adjectives - color it red  
verbs - color it green  
nouns - color it yellow  
adverbs - color it blue

What color kids do you see? Find the key that matches for your next hint!

• 1 red kid • 1 blue kid • 2 green kids • 2 yellow kids The gold is not in a place filled with trees.	• 2 red kids • 2 blue kids • 1 green kid • 1 yellow kid The gold is not in a place with water.	• 2 red kids • 1 blue kid • 2 green kids • 1 yellow kid The gold is not where it's hard to climb.	• 1 red kid • 2 blue kids • 1 green kid • 2 yellow kids The gold is not in a place like a hotel.
---	--	---	--

### 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.

3,024	2,496	2,940	969	2,538	3,150

39x64      75x12      51x9      48x63      27x91      84x35

H      O      U      S      E      S

The missing gold is not near any...

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!**

