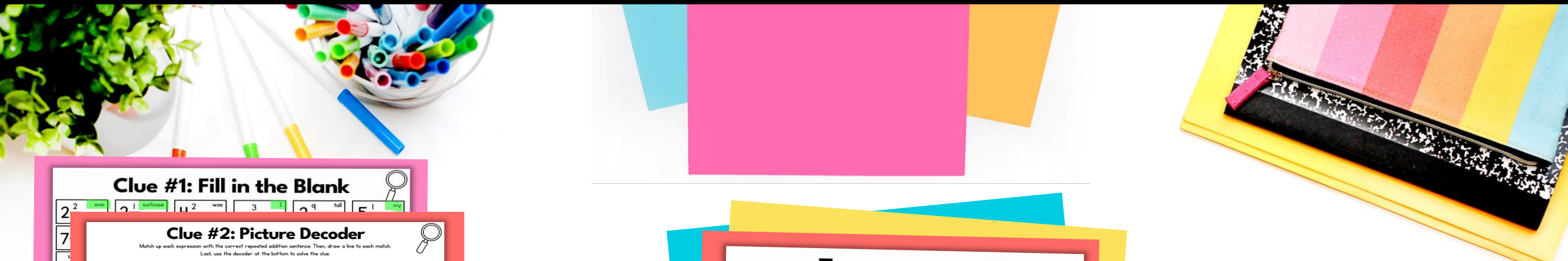


WHAT IS THIS?



Clue #1: Fill in the Blank

2 was 2 suitcase 4 was 3 I 9 tall 5 my

Clue #2: Picture Decoder

Match up each expression with the correct repeated addition sentence. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Clue #3: The Airplane

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

Clue #4: Color the Planes

Solve each problem in the boxes. Color the airplanes based on your answers.

You eat $\frac{3}{4}$ of a can of beans each day. How many cans of beans will you eat in 4 days?

Each kid gets a bag of food that weighs $\frac{6}{8}$ of a pound. If there are 4 kids, how much does...

Maria, Logan, and Naomi each drank $\frac{2}{3}$ of a cup of milk. How much milk did they drink...

Your water bottle can hold $\frac{2}{5}$ of water. If you fill up the water bottle 4 times, how much...

Clue #5: Travel the Globe

Solve the equations. Then, read what to do at the bottom.

$7 \times \frac{3}{3} \times 7$ 6

$\frac{4}{6} \times 9$ 6

$\frac{1}{2} \times 12$ 6

$\frac{2}{4} \times 10$ 5

$\frac{3}{4} \times 8$ 6

$\frac{2}{4} \times 8$ 4

$\frac{2}{3} \times 9$ 6

$\frac{1}{3} \times 12$ 4

The suitcase is in a place...

4: with 5 letters 6: with 7 letters
5: with 6 letters 7: with 8 letters








Which answer did you get most often?
Use that answer to figure out the final clue in the key!

solve the mystery

The Case of the Missing Luggage

Where is the Suitcase?

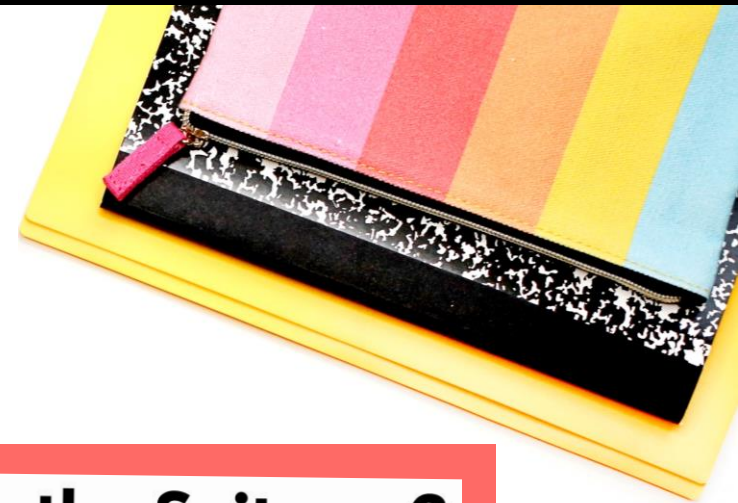
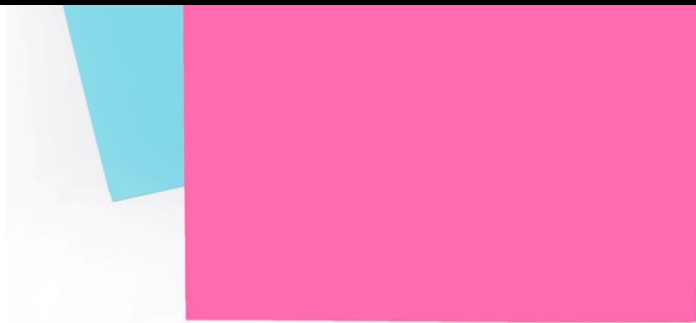
Figure out where you left the missing suitcase by solving each clue.

			
Italy	Japan	Canada	Germany
			
England	India	France	Ireland

Name: _____

Students complete a series of clues to figure out where the missing suitcase is!

HOW TO PLAY



What Happened?

You were so excited to be on vacation that you accidentally left your suitcase somewhere! Now, you have no idea where it is. Solve the clues to figure out which country your suitcase is in.

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



THE LIFETIME LEARNER

Clue #1: Fill in the Blank

$2\frac{2}{3}$ was	$2\frac{1}{2}$ suitcase	$4\frac{2}{5}$ was	$\frac{3}{5}$ I	$2\frac{9}{11}$ tall	$5\frac{1}{3}$ my
$7\frac{7}{8}$ wasn't	$3\frac{2}{3}$ pizza	$\frac{1}{3}$ when	$5\frac{2}{3}$ am	$7\frac{6}{8}$ animal	$3\frac{1}{2}$ with
$\frac{4}{5}$ music	$7\frac{1}{2}$ lost	$1\frac{9}{11}$ food	$7\frac{3}{8}$ deer	$4\frac{1}{5}$ eating	$\frac{2}{3}$ building





Answer: $\frac{2}{10} \times 3 = \frac{3}{5}$	Word: I	Answer: $\frac{4}{11} \times 5 = 1\frac{9}{11}$	Word: food	Answer: $\frac{5}{12} \times 6 = 2\frac{1}{2}$	Word: suitcase
$\frac{7}{8} \times 9 = 7\frac{7}{8}$	wasn't	$\frac{1}{6} \times 2 = \frac{1}{3}$	when	$\frac{2}{3} \times 4 = 2\frac{2}{3}$	was
$\frac{3}{5} \times 7 = 4\frac{1}{5}$	eating	$\frac{6}{9} \times 8 = 5\frac{1}{3}$	my	$\frac{6}{8} \times 10 = 7\frac{1}{2}$	lost

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 LIFETIME LEARNER

Where is the Suitcase?

Figure out where you left the missing suitcase by solving each clue.

 Italy	 Japan	 Canada	 Germany
 England	 India	 France	 Ireland

Name: _____

THE LIFETIME LEARNER

Each time students solve a clue, it will reveal what country to cross out.
When all clues are completed, the mystery of the missing suitcase be solved!

SKILL PRACTICE

- Multiplication Fractions by Whole Numbers
- Using Pictures
- Using Models
- Travel-Themed
- Error Analysis Practice

Clue #1: Fill in the Blank

$2\frac{2}{3}$ was	$2\frac{1}{2}$ suitcase	$4\frac{2}{5}$ was	$\frac{3}{5}$ I	$2\frac{9}{11}$ tall	$5\frac{1}{3}$ my
$7\frac{7}{8}$ wasn't	$3\frac{2}{3}$ pizza			6 animal	2 with
$\frac{4}{5}$ music	$7\frac{1}{2}$ lost				

Answer: $\frac{2}{10} \times 3 = \frac{6}{10}$ Word: I

Answer: $\frac{7}{8} \times 9 = \frac{63}{8}$ Word: wasn't

Answer: $\frac{3}{5} \times 7 = \frac{21}{5}$ Word: eating

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

Clue #2: Picture Decoder

Match up each expression with the correct repeated addition sentence. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Answers: $\frac{5}{6} \times 2$ $\frac{3}{4} \times 5$ $\frac{2}{8} \times 6$ $\frac{1}{6} \times 4$ $\frac{2}{8} \times 2$ $\frac{3}{4} \times 3$ $\frac{5}{6} \times 4$

Letters: A N I M A L S

The suitcase isn't around 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 =	

Clue #3: The Airplane

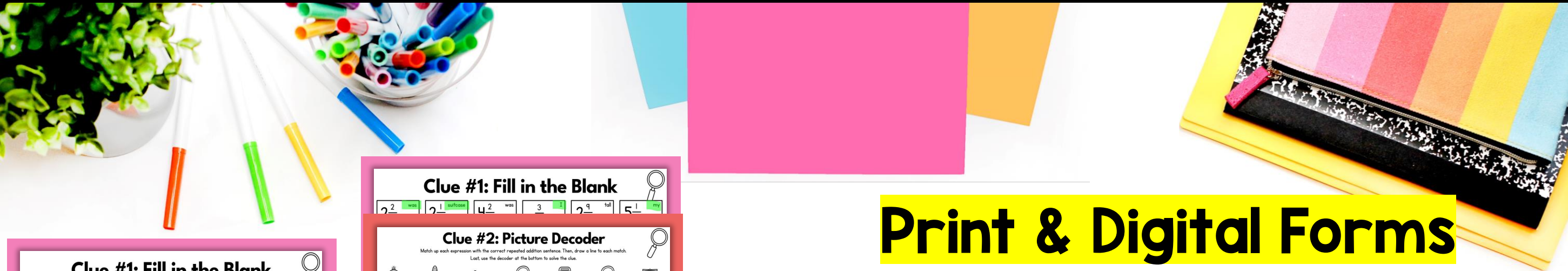
Put the correct answer in each box. Then, read what to do at the bottom.

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

not near any

All clues focus on reviewing 4th grade skills!

MULTIPLE VERSIONS



Print & Digital Forms

Clue #1: Fill in the Blank

2 2 was 2 1 suitcase 4 2 was 3 1 2 9 tall 5 1 my

Clue #2: Picture Decoder

Match up each expression with the correct repeated addition sentence. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Clue #3: The Airplane

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

3 Clue Version

Cross out the letters with the following answers:
 $3\frac{1}{3}$, $4\frac{3}{8}$, $1\frac{1}{8}$
Which letters are left? Write them on the line.

The suitcase is not near any MUSIC

Clue #1: Fill in the Blank

2 2 was 2 1 suitcase 4 2 was 3 1 2 9 tall 5 1 my

Clue #2: Picture Decoder

Match up each expression with the correct repeated addition sentence. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Clue #3: The Airplane

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

Clue #4: Color the Planes

Solve each problem in the boxes. Color the airplanes based on your answers.

You eat $\frac{3}{4}$ of a Each kid gets a bag Maria, Logan, and Your water bottle

Clue #5: Travel the Globe

Solve the equations. Then, read what to do at the bottom.

7 $\frac{3}{3} \times 7$ $\frac{4}{6} \times 9$ 6

5 Clue Version

The suitcase is in a place...
4: with 5 letters 6: with 7 letters
5: with 6 letters 7: with 8 letters

Which answer did you get most often?
Use that answer to figure out the final clue in the key!

Clue #3: The Airplane

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

Cross out the letters with the following answers:
 $3\frac{1}{3}$, $4\frac{3}{8}$, $1\frac{1}{8}$
Which letters are left? Write them on the line.

The suitcase is not near any MUSIC

Clue #3: The Airplane

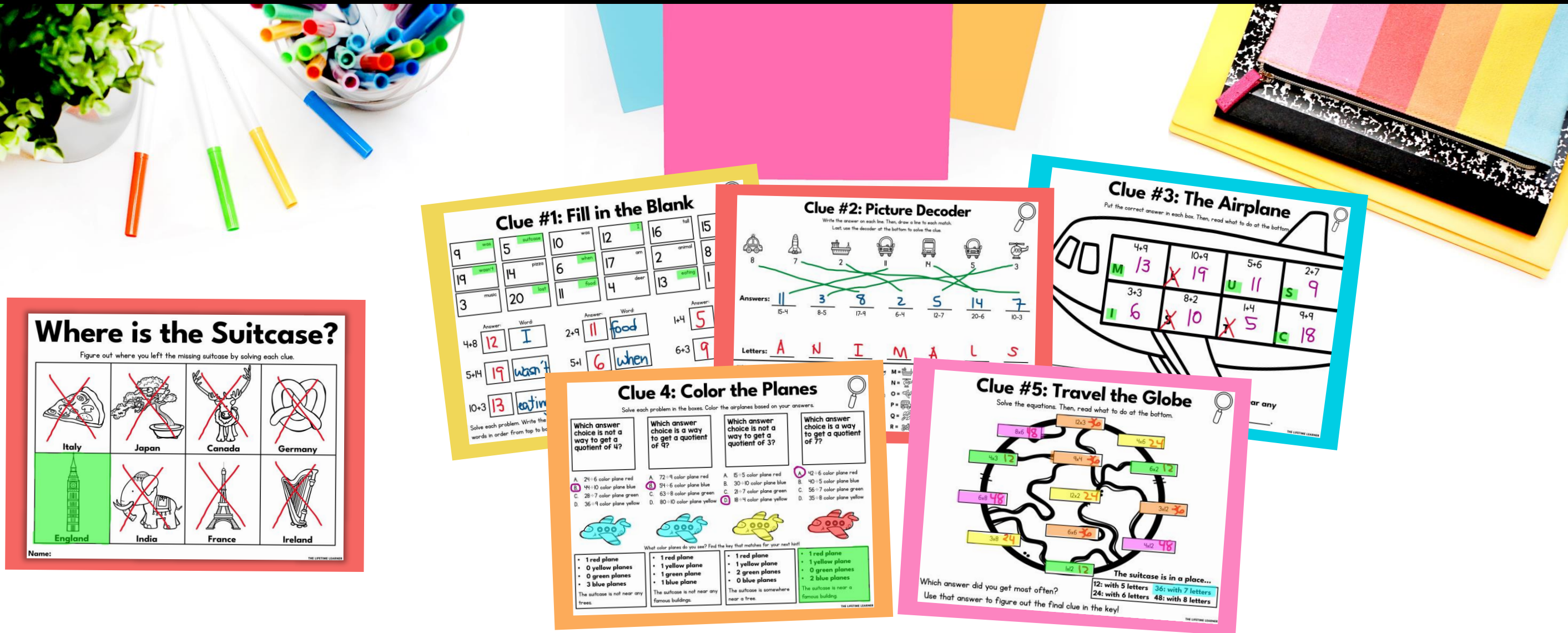
Put the correct answer in each box. Then, read what to do at the bottom.

Cross out the letters with the following answers:
 ~~$3\frac{1}{3}$~~ , $4\frac{3}{8}$, $1\frac{1}{8}$
Which letters are left? Write them on the line.

The suitcase is not near any

Short & Long Options

2 MATH FACT OPTIONS!



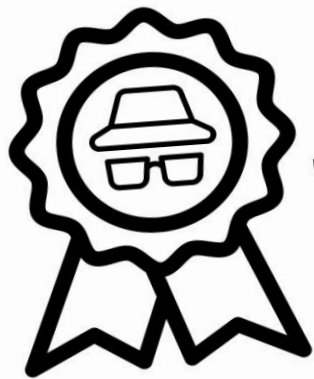
Same clues. Same mystery. Different math!

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!

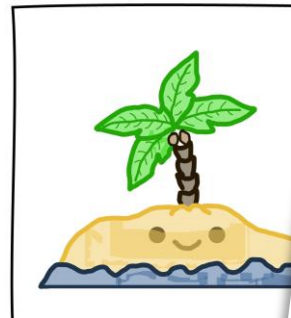
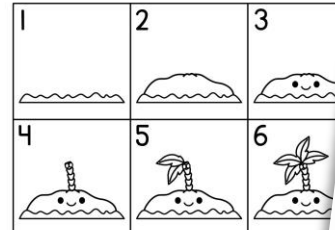
11/2

Date

AW

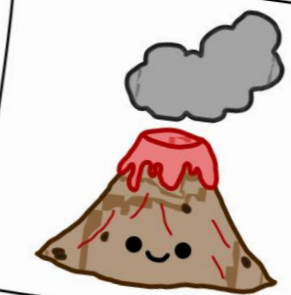
Presented by:

LET'S DRAW...
an island



THE LIFETIME LEARNER

LET'S DRAW...
a volcano



THE LIFETIME LEARNER


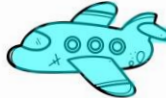


If students finish early,
give them a
certificate of completion
and a directed drawing
to complete while others
continue working.

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: Color the Planes

Solve each problem in the boxes. Color the airplanes based on your answers.

<p>You eat $\frac{3}{4}$ of a can of beans each day. How many cans of beans will you eat in 9 days?</p> <p>A. $5\frac{3}{4}$ color plane red B. $6\frac{3}{4}$ color plane blue C. $6\frac{1}{4}$ color plane green D. $6\frac{1}{2}$ color plane yellow</p> 	<p>Each kid gets a bag of food that weighs $\frac{6}{8}$ of a pound. If there are 4 kids, how much does their food weigh altogether?</p> <p>A. 2 color plane red B. 3 color plane blue C. $2\frac{1}{8}$ color plane green D. $3\frac{1}{2}$ color plane yellow</p> 	<p>Maria, Logan, and Naomi each drank $\frac{2}{3}$ of a cup of milk. How much milk did they drink in all?</p> <p>A. $3\frac{2}{4}$ color plane red B. 3 color plane blue C. $2\frac{1}{3}$ color plane green D. 2 color plane yellow</p> 	<p>Your water bottle can hold $\frac{2}{5}$ of water. If you fill up the water bottle 4 times, how much water have you used?</p> <p>A. $1\frac{3}{5}$ color plane red B. $2\frac{4}{5}$ color plane blue C. $2\frac{1}{5}$ color plane green D. $3\frac{2}{5}$ color plane yellow</p> 
<p>• 1 red plane • 0 yellow planes • 0 green planes • 3 blue planes</p> <p>The suitcase is not near any trees.</p>	<p>• 1 red plane • 1 yellow plane • 1 green plane • 1 blue plane</p> <p>The suitcase is not near any famous buildings.</p>	<p>• 1 red plane • 1 yellow plane • 2 green planes • 0 blue planes</p> <p>The suitcase is somewhere near a tree.</p>	<p>• 1 red plane • 1 yellow plane • 0 green planes • 2 blue planes</p> <p>The suitcase is near a famous building.</p>

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

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

2 $\frac{2}{3}$ was 2 $\frac{1}{2}$ was 4 $\frac{2}{5}$ was 3 $\frac{1}{4}$ was 2 $\frac{9}{10}$ was 5 $\frac{1}{2}$ was

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.

9 train 11 car 2 11 7 20

Clue #3: The Airplane

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

Clue 4: Color the Planes

Solve each problem in the boxes. Color the airplanes based on your answers.

You eat $\frac{3}{4}$ of a can of beans each day. How many
Each kid gets a bag of food that weighs $\frac{6}{8}$ of a pound. If
Maria, Logan, and Naomi each drank $\frac{2}{3}$ of a cup of
Your water bottle can hold $\frac{2}{5}$ of water. If you fill up

Clue #5: Travel the Globe

Solve the equations. Then, read what to do at the bottom.

7 $\frac{3}{3} \times 7$ 6 $\frac{4}{6} \times 9$ 6 $\frac{3}{4} \times 8$ 4 $\frac{1}{3} \times 12$ 6 $\frac{2}{3} \times 9$ 4 $\frac{2}{4} \times 8$ 5 $\frac{2}{4} \times 10$

The suitcase is in a place...

4: with 5 letters 6: with 7 letters 5: with 6 letters 7: with 8 letters

Which answer did you get most often?
Use that answer to figure out the final clue in the key!

The Detective Agency sends congratulations to:

Lindsay

You solved the mystery!

11/2 Date Presented by: AW

LET'S DRAW...
an island

1 2 3
4 5 6

THE LIFETIME LEARNER









LET'S DRAW...
a volcano

1 2 3
4 5 6

THE LIFETIME LEARNER


Where is the Suitcase?

Figure out where you left the missing suitcase by solving each clue.

 Italy	 Japan	 Canada	 Germany
 England	 India	 France	 Ireland

Name: _____

solve the mystery



The Case of the Missing Luggage

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

Clue #1: Find It!

Circle the boxes that have adjectives that describe traveling.
Read the words you circled from left to right like a book to solve the clue.

can	not	eat	food
exciting	lumpy	pointy	noisy
sing	sticky	adventurous	eat
play	pretzels	antlers	tusks
purple	crowded	furry	ten

Write the phrase on the line. Cross the wrong places off your list.
not where you eat pretzels

Example
of Clue 1

Math

Clue #1: Fill in the Blank

$2\frac{2}{3}$	was	$2\frac{1}{2}$	suitcase	$4\frac{2}{5}$	was	$\frac{3}{5}$	I	$2\frac{9}{11}$	tall	$5\frac{1}{3}$	my
$7\frac{7}{8}$	wasn't	$3\frac{2}{3}$	pizza	$\frac{1}{3}$	when	$5\frac{2}{3}$	am	$7\frac{6}{8}$	animal	$3\frac{1}{2}$	with
$\frac{4}{5}$	music	$7\frac{1}{2}$	lost	$1\frac{9}{11}$	food	$7\frac{3}{8}$	deer	$4\frac{1}{5}$	eating	$\frac{2}{3}$	building

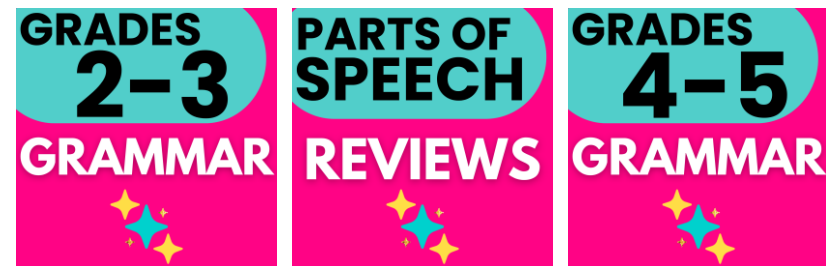
Answer: Word: $\frac{3}{5}$ I $\frac{4}{11} \times 5 = \frac{20}{11}$ $1\frac{9}{11}$ food $\frac{5}{12} \times 6 = \frac{30}{12}$ $2\frac{1}{2}$ suitcase
 $\frac{7}{8} \times \frac{6}{8} = \frac{42}{64}$ $\frac{7}{8}$ wasn't $\frac{1}{6} \times \frac{2}{6} = \frac{2}{6}$ $\frac{1}{3}$ when $\frac{2}{3} \times \frac{4}{3} = \frac{8}{3}$ $2\frac{2}{3}$ was
 $\frac{3}{5} \times 7 = \frac{21}{5}$ $4\frac{1}{5}$ eating $\frac{6}{9} \times 8 = \frac{48}{9}$ $5\frac{1}{3}$ my $\frac{6}{8} \times 10 = \frac{60}{8}$ $7\frac{1}{2}$ lost

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!

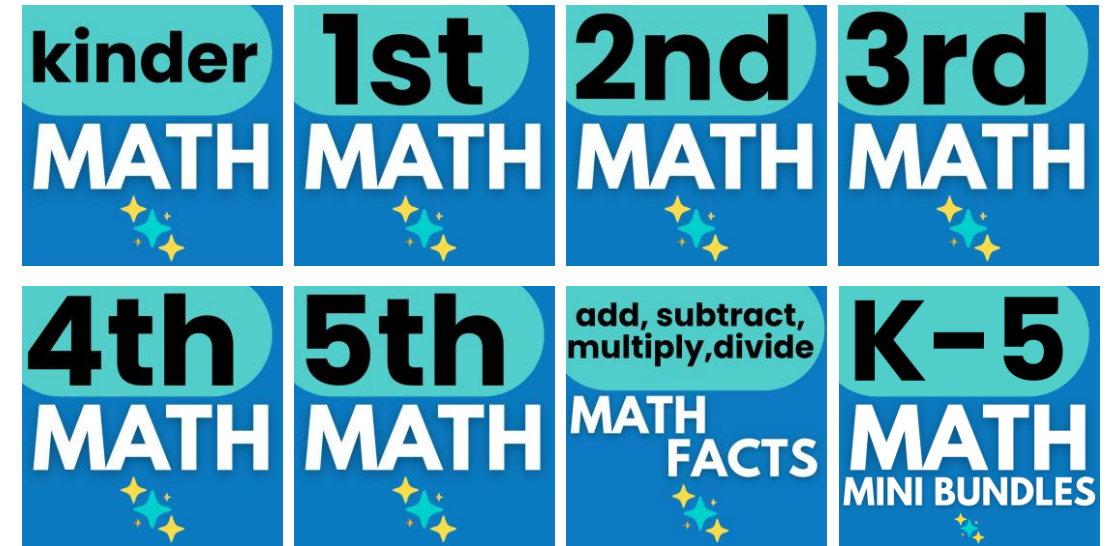
GRAB A **READING MYSTERY**:

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!**

