

WHAT IS THIS?

Clue #1: Picture Decoder
Find the factor that is MISSING in each group. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Clue #2: Multiple Choice
Solve each question. Circle the right answer. Then read the bottom.

Clue #3: Right or Wrong?
Read each statement. List out the factor pairs for each number to decide if it's true. Color the star green if the answer is correct. Color the star red if it's wrong.

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

77	83	54	81
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Clue #5: Error Analysis
Check each instrument's work. Put a check or an X next to each answer.

 Keyboard	 Drums
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Keyboard

- ✓ 91 is a multiple of 7.
- ✗ 64 is a multiple of 9.
- ✓ 80 is a multiple of 6.
- ✗ 35 is a multiple of 4.
- ✓ 56 is a multiple of 8.
- ✗ 24 is a multiple of 5.
- ✓ 88 is a multiple of 11.
- ✓ 70 is a multiple of 10.

Drums

- ✗ 21 is a multiple of 4.
- ✓ 62 is a multiple of 3.
- ✓ 27 is a multiple of 9.
- ✓ 96 is a multiple of 12.
- ✗ 40 is a multiple of 6.
- ✓ 35 is a multiple of 5.
- ✓ 41 is a multiple of 7.
- ✓ 38 is a multiple of 2.

What Went Missing?
Figure out what musical instrument went missing by solving each clue.

 Keyboard	 Trumpet	 Amp	 Drum Set
 Acoustic Guitar	 Electric Guitar	 Speakers	 Microphone

Name: _____

solve the mystery

The Case of the Missing Instrument

THE LIFETIME LEARNER

Students complete a series of clues to figure out what instrument is missing!

HOW TO PLAY



What Happened?

Last night, you went to a rock concert. But as the band was playing, one of their instruments suddenly went missing! Now you have to figure out which instrument disappeared based on the clues.

1. Take a list of instruments and then start solving each clue.
2. Each time you solve a clue, you will get closer to discovering which instrument went missing.
3. Cross out wrong instruments each time you find out new information. Good luck!

THE LIFETIME LEARNER

Clue #1: Picture Decoder

Find the factor that is MISSING in each group. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Answers: 6 12 48 27 16 4

Factors of 36: 9, 1, 3, 18, 4, 36, 2, 12, 6
 Factors of 72: 36, 1, 2, 72, 24, 18, 3, 16, 6, 24, 8, 3.8, 6, 4, 9, 12
 Factors of 48: 3, 16, 6, 24, 8, 12, 1, 4, 2, 48
 Factors of 54: 2, 18, 1, 9, 3, 6, 54, 27
 Factor of 80: 40, 5, 1, 4, 80, 8, 2, 20, 10, 16
 Factors of 96: 3, 24, 8, 2, 1, 32, 96, 6, 12, 48, 16, 4

Letters: G U I T A R

The missing instrument is not a...

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 = 😐	

THE LIFETIME LEARNER

What Went Missing?

Figure out what musical instrument went missing by solving each clue.

Keyboard	 Trumpet	 Amp	 Drum Set
 Acoustic Guitar	 Electric Guitar	 Speakers	 Microphone

Name: _____

THE LIFETIME LEARNER

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

SKILL PRACTICE

Clue #1: Picture Decoder
Find the factor that is MISSING in each group. Then, draw a line to each match. Last, use the decoder at the bottom to solve the clue.

Answers: 6 12

Letters: G U

The missing instrument is not a...

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

Clue #2: Multiple Choice
Solve each question. Circle the right answer. Then read the bottom.

What number is a multiple of 5?
A. 75
B. 51
C. 23
D. 56

Which answer is NOT a multiple of 7?
A. 28
B. 32
C. 49
D. 84

What number is a multiple of both 4 and 6?
A. 18
B. 30
C. 28
D. 36

Which answer is NOT a multiple of both 8 and 6?
A. 48
B. 24
C. 72
D. 32

What number is a multiple of 12?
A. 35
B. 96
C. 68
D. 42

Which answer is NOT a multiple of 2?
A. 60
B. 36
C. 27
D. 88

What number is a multiple of both 3 and 9?
A. 57
B. 39
C. 18
D. 24

Which answer is NOT a multiple of both 5 and 10?
A. 40
B. 73
C. 20
D. 90

Circle how many you chose in each box below. Then, read the phrase to know what to cross out.

How many As did you circle? 1 A = You play this 2 As = You use this 3 As = You can 4 As = You don't use	How many Bs did you circle? 1 B = this 2 Bs = your 3 Bs = instrument 4 Bs = guitar	How many Cs did you circle? 1 C = to 2 Cs = with 3 Cs = piano 4 Cs = instrument	How many Ds did you circle? 1 D = your mouth 2 Ds = your hands 3 Ds = makes sound 4 Ds = the strings
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Clue #3: Right or Wrong?
Each statement. List out the factor pairs for each number to decide if it's true. Color the star green if the answer is correct. Color the star red if it's wrong.

56 has 5 factor pairs.
List all factor pairs here:
1, 56
2, 28
4, 14
7, 8

36 has 5 factor pairs.
List all factor pairs here:
1, 36
2, 18
3, 12
4, 9
6, 6

92 has 3 factor pairs.
List all factor pairs here:
1, 92
2, 46
4, 23

48 has 4 factor pairs.
List all factor pairs here:
1, 48
2, 24
3, 16
4, 12
6, 8

out the drum set.
out the trumpet.

- Factors & Multiples
- Prime and Composite Numbers
- Rock Star-Themed
- Error Analysis Practice

All clues focus on reviewing 4th grade skills!

2 MATH FACT OPTIONS!

What Went Missing?

Figure out what musical instrument went missing by solving each clue.

 Keyboard	 Trumpet	 Amp	 Drum Set
 Acoustic Guitar	 Electric Guitar	 Speakers	 Microphone

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: $\frac{26}{17-3}$, $\frac{13}{4-9}$, $\frac{8}{7-1}$, $\frac{11}{5-6}$, $\frac{15}{11-4}$

Letters: G U I T A

The missing instrument is not a...

Clue #2: Multiple Choice

Solve each question. Circle the right answer. Then read the bottom.

$12-7$ A. 5 B. 6 C. 7 D. 8
 $13-10$ A. 4 B. 3 C. 8 D. 7
 $8-5$ A. 6 B. 5 C. 4 D. 3
 $11-9$ A. 5 B. 4 C. 3 D. 2
 $20-6$ A. 13 B. 15 C. 16 D. 14
 $9-3$ A. 4 B. 5 C. 6 D. 7
 $14-6$ A. 6 B. 7 C. 8 D. 9
 $7-3$ A. 5 B. 4 C. 3 D. 2

Clue #3: Right or Wrong?

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

$5+6=11$ (Green star)
 $4+3=8$ (Red star)
 $11+5=16$ (Green star)
 $7+9=15$ (Red star)
 $6+12=18$ (Green star)
 $5+8=13$ (Green star)
 $10+8=18$ (Red star)
 $2+5=7$ (Green star)
 $3+9=14$ (Green star)
 12 (Red star)

Clue #4: The Piano Keys

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

$56 \div 8$ X 7 P	$15 \div 5$ 3 S	$22 \div 11$ X 2 L	$30 \div 6$ 5 A
$42 \div 7$ 6 I	$99 \div 9$ X 11 Y	$144 \div 12$ 12 N	$72 \div 9$ 8 G

Cross out the letters with the following answers: 2, 5, 7, 11
 What letters haven't been crossed out? Write them on the line.

You do not sing with the missing instrument.

Clue #5: Error Analysis

Check each instrument's work. Put a check or an X next to each answer.

Keyboard

- $3 \times 4 = 12$
- $40 \div 8 = 5$
- $6 \times 11 = 66$
- $56 \div 9 = 8$
- $7 \times 4 = 27$

Drums

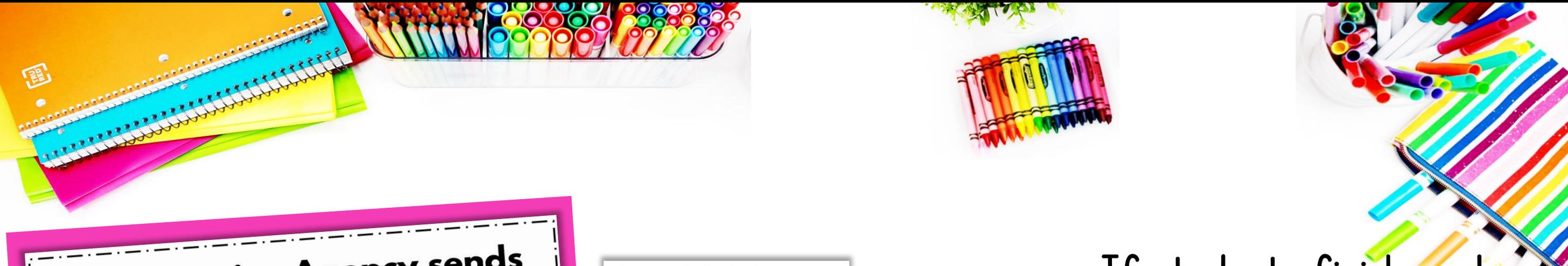
- $72 \div 6 = 12$
- $10 \times 5 = 50$
- $63 \div 7 = 9$
- $12 \times 3 = 36$
- $108 \div 11 = 9$

The instrument with the most correct answers is not the missing instrument.

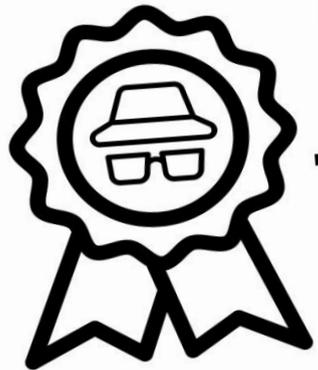
Same clues. Same mystery. Different math!

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

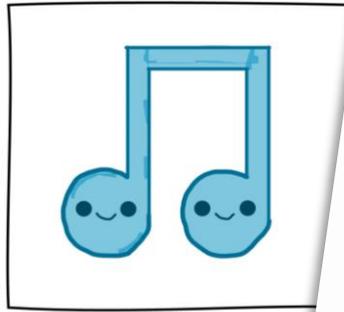
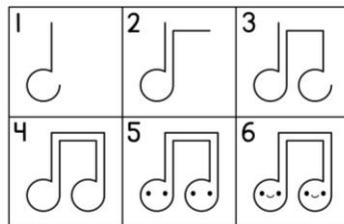
Date

AW

Presented by:

LET'S DRAW...

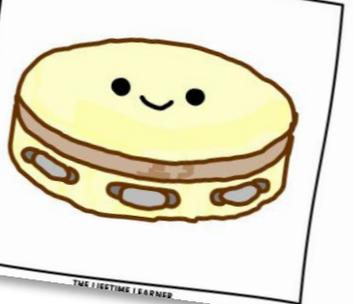
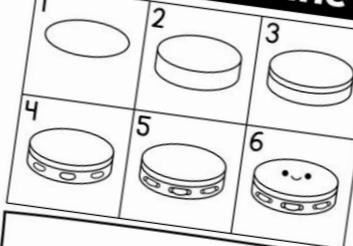
a note



THE LIFETIME LEARNER

LET'S DRAW...

a tambourine



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 Piano Keys 

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

77 composite		83 prime S		54 composite		81 composite
59 prime I		30 composite		41 prime N		29 prime G

Cross out the following answers:
All composite numbers
What letters haven't been crossed out? Write them on the line.

You do not sing with the missing instrument.

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: 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: Multiple Choice
Solve each question. Circle the right answer. Then read the bottom.

What number is a multiple of 5? 75 28 18 48

Which answer is NOT a multiple of 7? 75 28 18 48

What number is a multiple of both 4 and 6? 75 28 18 48

Which answer is NOT a multiple of both 8 and 6? 75 28 18 48

Clue #3: Right or Wrong?
Read each statement. List out the factor pairs for each number to decide if it's true. Color the star green if the answer is correct. Color the star red if it's wrong.

70 has 4 factor pairs.	56 has 5 factor pairs.	36 has 5 factor pairs.
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Clue #4: The Piano Keys
Put the correct answer in each box. Then, read what to do at the bottom.

77	92	54	91
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Clue #5: Error Analysis
Check each instrument's work. Put a check or an X next to each answer.

Keyboard	Drums
<input checked="" type="checkbox"/> 91 is a multiple of 7.	<input checked="" type="checkbox"/> 21 is a multiple of 4.
<input checked="" type="checkbox"/> 64 is a multiple of 9.	<input checked="" type="checkbox"/> 52 is a multiple of 3.
<input checked="" type="checkbox"/> 80 is a multiple of 6.	<input checked="" type="checkbox"/> 27 is a multiple of 9.
<input checked="" type="checkbox"/> 35 is a multiple of 4.	<input checked="" type="checkbox"/> 96 is a multiple of 12.
<input checked="" type="checkbox"/> 56 is a multiple of 8.	<input checked="" type="checkbox"/> 10 is a multiple of 6.
<input checked="" type="checkbox"/> 24 is a multiple of 5.	<input checked="" type="checkbox"/> 35 is a multiple of 5.
<input checked="" type="checkbox"/> 8 is a multiple of 11.	<input checked="" type="checkbox"/> 4 is a multiple of 7.
<input checked="" type="checkbox"/> 70 is a multiple of 10.	<input checked="" type="checkbox"/> 38 is a multiple of 2.

Cross out the instrument with the most correct answers on your recording sheet.

The Detective Agency sends congratulations to:

Lindsay

You solved the mystery!

Date 11/2 Presented by: AW

LET'S DRAW...
a note

A drawing activity for a musical note. It shows a grid of six musical notes (quarter, eighth, and sixteenth notes) with numbered boxes 1 through 6. Below the grid is a large musical note with a face, intended for coloring.

LET'S DRAW...
a tambourine

A drawing activity for a tambourine. It shows a grid of six different views of a tambourine with numbered boxes 1 through 6. Below the grid is a large, smiling tambourine intended for coloring.

What Went Missing?
Figure out what musical instrument went missing by solving each clue.

<input checked="" type="checkbox"/> Keyboard	<input checked="" type="checkbox"/> Trumpet	<input checked="" type="checkbox"/> Amp	<input checked="" type="checkbox"/> Drum Set
<input checked="" type="checkbox"/> Acoustic Guitar	<input checked="" type="checkbox"/> Electric Guitar	<input checked="" type="checkbox"/> Speakers	<input checked="" type="checkbox"/> Microphone

solve the mystery

The Case of the Missing Instrument

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 an adjective. Cross out the boxes that do not.
Read the words you circled from left to right like a book to solve the clue.

<input type="checkbox"/> stars <input type="checkbox"/> no	<input checked="" type="checkbox"/> stars <input checked="" type="checkbox"/> yes stage	<input checked="" type="checkbox"/> stars <input checked="" type="checkbox"/> amp brightly	<input checked="" type="checkbox"/> stars <input checked="" type="checkbox"/> stars famous
<input checked="" type="checkbox"/> stars <input checked="" type="checkbox"/> on	<input checked="" type="checkbox"/> stars <input checked="" type="checkbox"/> drum electric	<input checked="" type="checkbox"/> stars <input checked="" type="checkbox"/> poster	<input checked="" type="checkbox"/> stars <input checked="" type="checkbox"/> this dance
<input checked="" type="checkbox"/> stars <input checked="" type="checkbox"/> hit spotlight	<input checked="" type="checkbox"/> stars <input checked="" type="checkbox"/> instrument cool	<input checked="" type="checkbox"/> stars <input checked="" type="checkbox"/> hands bow	<input checked="" type="checkbox"/> stars <input checked="" type="checkbox"/> slam microphone

Write the phrase on the line. Cross the wrong instruments off your list.
no stars on this instrument

Example of Clue 1

Math

Clue #1: Picture Decoder
Find the factor that is MISSING in each group. Then, draw a line to each match.
Last, use the decoder at the bottom to solve the clue.

😊 16	😊 12	😊 6	😊 27	😊 4	😊 48
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Answers: 6 12 48 27 16 4

Factors of 36: 1, 3, 18, 4, 36, 2, 12, 6
Factors of 72: 36, 1, 2, 72, 24, 18, 3, 16, 6, 24, 8, 3, 8, 6, 4, 3, 12, 12, 1, 4, 2, 48
Factors of 48: 2, 18, 1, 9, 3, 6, 54, 27
Factor of 80: 40, 5, 1, 4, 80, 8, 2, 20, 10, 16
Factors of 96: 3, 24, 8, 2, 1, 32, 16, 6, 12, 48, 16, 4

s: G U I T A R

The missing instrument is not a...

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!

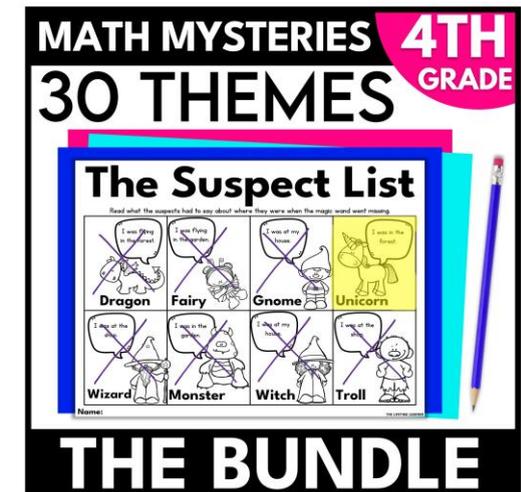


MORE **MATH MYSTERIES**:

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



BUY A BUNDLE
TO **SAVE BIG!**



THE BUNDLE