

WHAT IS THIS?



solve the mystery



The Case of the Missing Instrument

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.

Clue #2: Multiple Choice
Fill in the box with a factor to make the equation true. Then read the bottom.

Clue #3: Right or Wrong?
Color the star green if the answer is correct. Color the star red if it's wrong.

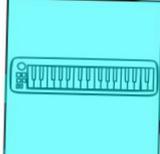
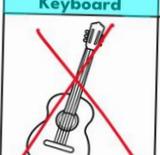
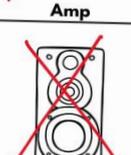
Clue #4: The Piano Keys
Put the correct answer in each box. Then, read what to do at the bottom.

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

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

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

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

Equal to 8	Greater than 8	less than 8	Equal to 2	Less than 2	Greater than 2

Answers: 6 13 ¹/₃ 3 ⁴/₆ or 2 ²/₃ 2 8 1 ⁶/₈ or 1 ³/₄

$8 \times \frac{3}{4} = \frac{24}{4} = 6$ $8 \times 1 \frac{2}{3} = \frac{40}{3} = 13 \frac{1}{3}$ $2 \times 1 \frac{5}{6} = \frac{27}{6} = 3 \frac{4}{6} = 2 \frac{2}{3}$ $2 \times \frac{10}{10} = 2 \times 1 = 2$ $8 \times \frac{5}{5} = 8 \times 1 = 8$ $2 \times \frac{7}{8} = \frac{14}{8} = 1 \frac{6}{8} = 1 \frac{3}{4}$

Letters: G U I T A R

The missing instrument is not a...

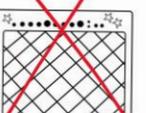
Use this decoder to help you figure out what letter is equal to each picture.

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

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: 6 $13\frac{1}{3}$

$8 \times \frac{3}{4} = \frac{24}{4} = 6$
 $8 \times \frac{1}{3} = \frac{8}{3} = 2\frac{2}{3}$

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 #3: Right or Wrong?

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

The product of $4 \times \frac{8}{9}$ is...
 $4 \times \frac{8}{9} = \frac{32}{9} = 3\frac{4}{9}$ (Slightly more than 3)

The product of $5 \times \frac{9}{8}$ is...
 $5 \times \frac{9}{8} = \frac{45}{8} = 5\frac{5}{8}$ (Slightly more than 5)

The product of $7 \times \frac{10}{4}$ is...
 $7 \times \frac{10}{4} = \frac{70}{4} = 17\frac{3}{4} = 17\frac{1}{2}$ (Much more than 7)

The product of $8 \times \frac{1}{4}$ is...
 $8 \times \frac{1}{4} = 2$ (Much less than 8)

The product of $9 \times \frac{7}{3}$ is...
 $9 \times \frac{7}{3} = \frac{63}{3} = 21$ (Much more than 9)

Clue #2: Multiple Choice

Fill in the box with a factor to make the equation true. Then read the bottom.

$9 \times \frac{2}{2} = 9$
A. $\frac{2}{2}$ B. $\frac{2}{3}$ C. $1\frac{2}{3}$ D. $\frac{2}{9}$

$\frac{5}{6} \times \frac{6}{5} > \frac{5}{6}$
A. $\frac{6}{6}$ B. $\frac{6}{5}$ C. $\frac{5}{6}$ D. $1\frac{5}{6}$

$\frac{11}{12} \times \frac{11}{12} < \frac{11}{12}$
A. $\frac{12}{12}$ B. $1\frac{11}{12}$ C. $\frac{12}{11}$ D. $\frac{11}{12}$

$4\frac{7}{8} \times \frac{4}{4} = 4\frac{7}{8}$
A. $\frac{5}{6}$ B. $4\frac{7}{8}$ C. $\frac{7}{8}$ D. $\frac{4}{4}$

$\frac{1}{2} \times \frac{1}{2} < \frac{1}{2}$
A. $\frac{2}{1}$ B. $\frac{1}{2}$ C. $\frac{2}{2}$ D. $\frac{1}{1}$

$3\frac{4}{9} \times \frac{9}{9} > 3\frac{4}{9}$
A. $\frac{4}{9}$ B. $\frac{3}{9}$ C. $3\frac{4}{9}$ D. $\frac{3}{3}$

$2\frac{1}{3} \times \frac{1}{3} < 2\frac{1}{3}$
A. $\frac{2}{3}$ B. $\frac{3}{3}$ C. $\frac{1}{3}$ D. $\frac{3}{1}$

$7 \times \frac{5}{3} > 7$
A. $\frac{3}{5}$ B. $\frac{5}{3}$ C. $\frac{5}{5}$ D. $\frac{3}{3}$

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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- Multiplication as Scaling
- Multiplying by Fractions
- Rock Star-Themed
- Error Analysis Practice

All clues focus on reviewing 5th 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: Multiple Choice
Fill in the box with a factor to make the equation true. Then read the bottom.

Clue #3: Right or Wrong?
Color the star green if the answer is correct. Color the star red if it's wrong.

3 Clue Version

3 answers correct = Cross out the keyboard.
4 answers correct = Cross out the microphone.

Slightly more than 4
Much more than 4

Slightly more than 5
Much more than 5

Slightly more than 7
Much more than 7

Slightly more than 8
Much more than 8

Slightly more than 10
Much more than 10

Slightly more than 6
Much more than 6

Slightly less than 6
Much less than 6

Slightly more than 3
Much more than 3

Slightly less than 4
Much less than 4

Which is true?

5 answers correct = Cross out the drum set.
6 answers correct = Cross out the trumpet.

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
Fill in the box with a factor to make the equation true. Then read the bottom.

Clue #3: Right or Wrong?
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.

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

5 Clue Version

Keyboard Drums

$\frac{1}{4} \times \frac{3}{3}$ $\frac{4}{5}$

$2\frac{3}{8} \times \frac{11}{12}$ $4\frac{1}{2}$

$\frac{5}{6} \times \frac{10}{10}$ $\frac{10}{10}$

$\frac{6}{11} \times \frac{1}{4}$ $\frac{1}{2}$

$\frac{8}{5} \times 3\frac{2}{6}$ will be greater than $3\frac{2}{6}$ $\frac{5}{12} \times \frac{3}{8}$ will be less than $\frac{1}{12}$

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

Clue #2: Multiple Choice
Fill in the box with a factor to make the equation true. Then read the bottom.

$9 \times \frac{2}{2} = 9$ $\frac{5}{6} \times \frac{6}{5} > \frac{5}{6}$ $\frac{11}{12} \times \frac{11}{12} < \frac{11}{12}$ $4\frac{7}{8} \times \frac{1}{4} = 4\frac{7}{8}$

A. 2/2 A. 6/6 A. 12/12 A. 5/6
B. 2/3 B. 6/5 B. 1 11/12 B. 4 7/8
C. 1 2/3 C. 5/6 C. 12/11 C. 7/8
D. 2/9 D. 1 5/6 D. 11/2 D. 4/4

$\frac{1}{2} \times \frac{2}{2} < \frac{1}{2}$ $3\frac{4}{4} \times \frac{3}{4} > 3\frac{4}{4}$ $2\frac{1}{3} \times \frac{1}{3} < 2\frac{1}{3}$ $7 \times \frac{5}{3} > 7$

A. 2/1 A. 4/9 A. 2 1/3 A. 5/6
B. 1/2 B. 3/9 B. 3/3 B. 4 7/8
C. 2/2 C. 3 4/9 C. 1/3 C. 7/8
D. 1/1 D. 3/3 D. 3/1 D. 4/4

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

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

Clue #2: Multiple Choice
Fill in the box with a factor to make the equation true. Then read the bottom.

$9 \times \square = 9$ $\frac{5}{6} \times \square > \frac{5}{6}$ $\frac{11}{12} \times \square < \frac{11}{12}$ $4\frac{7}{8} \times \square = 4\frac{7}{8}$

A. 2/2 A. 6/6 A. 12/12 A. 5/6
B. 2/3 B. 6/5 B. 1 11/12 B. 4 7/8
C. 1 2/3 C. 5/6 C. 12/11 C. 7/8
D. 2/9 D. 1 5/6 D. 11/2 D. 4/4

$\frac{1}{2} \times \square < \frac{1}{2}$ $3\frac{4}{4} \times \square > 3\frac{4}{4}$ $2\frac{1}{3} \times \square < 2\frac{1}{3}$ $7 \times \square > 7$

A. 2/1 A. 4/9 A. 2 1/3 A. 3/5
B. 1/2 B. 3/9 B. 3/3 B. 5/3
C. 2/2 C. 3 4/9 C. 1/3 C. 5/5
D. 1/1 D. 3/3 D. 3/1 D. 3/3

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

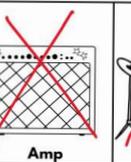
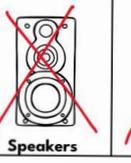
How many Ds did you circle?
1 D = your mouth
2 Ds = your hands
3 Ds = makes sound
4 Ds = the strings

Short & Long Options

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 I 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. 14 C. 15 D. 16
 $9-3$ 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.

$5+6=11$ 	$4+3=8$ 	$11+5=16$ 
$7+9=15$ 	$6+12=18$ 	$5+8=13$ 
$10+8=18$ 	$2+5=7$ 	$3+9=14$ 

Clue #4: The Piano Keys

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

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

Cross out the letters with the following answers: **2, 5, 7, 11**

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.

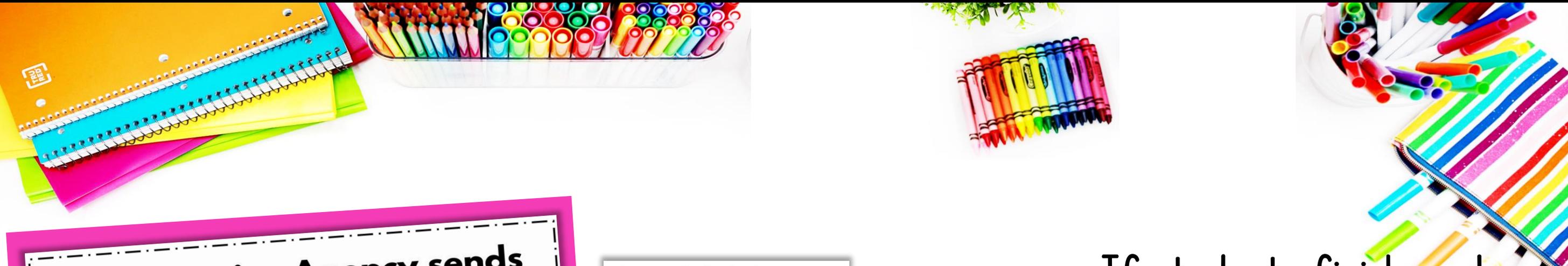
Keyboard	Drums
<input checked="" type="checkbox"/> $3 \times 4 = 12$	<input checked="" type="checkbox"/> $72 \div 6 = 12$
<input checked="" type="checkbox"/> $40 \div 8 = 5$	<input checked="" type="checkbox"/> $10 \times 5 = 50$
<input checked="" type="checkbox"/> $6 \times 11 = 66$	<input checked="" type="checkbox"/> $63 \div 7 = 9$
<input checked="" type="checkbox"/> $56 \div 9 = 8$	<input checked="" type="checkbox"/> $12 \times 3 = 36$
<input checked="" type="checkbox"/> $7 \times 4 = 27$	<input checked="" type="checkbox"/> $108 \div 11 = 9$

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

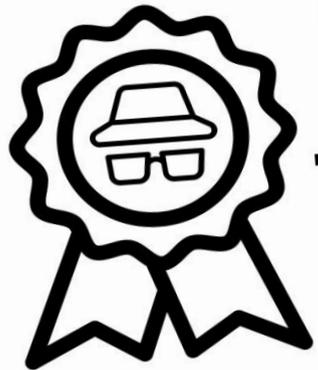
Same clues. Same mystery. Different math!

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

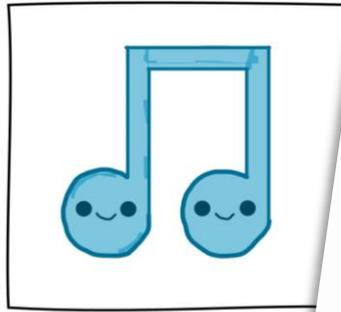
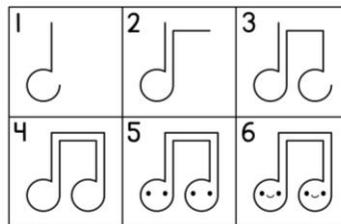
You solved the mystery!

11/2
Date

AW
Presented by:

LET'S DRAW...

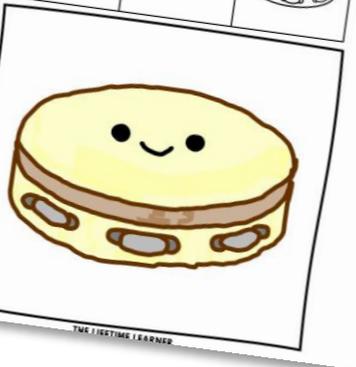
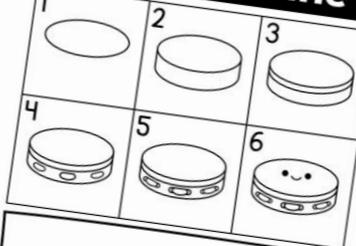
a note



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.

$5 \times \frac{7}{7}$ P S	$5 \times 1 \frac{5}{9}$ $5 \times \frac{14}{9} = \frac{70}{9}$ 7 S $\frac{7}{9}$	$5 \times \frac{2}{5}$ $\frac{10}{5} = 2$ L 2	$5 \times \frac{8}{8}$ A S
$5 \times \frac{9}{6}$ $\frac{45}{6} = 7 \frac{3}{2}$ or $7 \frac{1}{3}$ I $7 \frac{1}{3}$	$5 \times \frac{4}{10}$ $\frac{20}{10} = 2$ Y 2	$5 \times \frac{6}{3}$ $\frac{30}{3} = 10$ N 10	$5 \times 3 \frac{3}{4}$ $5 \times \frac{15}{4} = \frac{75}{4}$ $= 18 \frac{3}{4}$ G $18 \frac{3}{4}$

Cross out the letters with the following answers:
Less than 5, equal to 5
What letters haven't been crossed out? Write them on the line.

You do not sing with the missing instrument.

THE LIFETIME LEARNER

In 5th 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
Fill in the box with a factor to make the equation true. Then read the bottom.

Clue #3: Right or Wrong?
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.

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

Keyboard Drums

$\frac{1}{4} \times \frac{3}{3}$ will be less than $\frac{1}{4}$ $\frac{1}{4} \times \frac{1}{4}$ will be equal to $\frac{1}{16}$

$2\frac{3}{8} \times \frac{11}{12}$ will be greater than $\frac{11}{12}$ $\frac{2}{4} \times 4\frac{1}{2}$ will be less than $4\frac{1}{2}$

$\frac{5}{6} \times \frac{10}{10}$ will be equal to $\frac{5}{6}$ $\frac{3}{5} \times \frac{10}{12}$ will be greater than $\frac{10}{12}$

$\frac{6}{6} \times \frac{4}{4}$ will be less than $\frac{4}{4}$ $\frac{8}{10} \times \frac{7}{7}$ will be equal to $\frac{8}{10}$

$\frac{8}{12} \times 3\frac{2}{6}$ will be greater than $3\frac{2}{6}$ $\frac{5}{12} \times \frac{3}{8}$ will be less than $\frac{5}{12}$

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

The Detective Agency sends congratulations to:

Lindsay

You solved the mystery!

11/2 **AW**

Date Presented by:

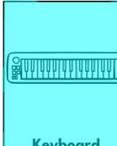
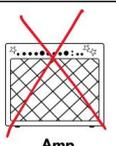
LET'S DRAW...
a note

1 2 3
4 5 6

LET'S DRAW...
a tambourine

1 2 3
4 5 6

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

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

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

Equal to 8	Greater than 8	less than 8	Equal to 2	Less than 2	Greater than 2
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Answers: $\frac{6}{1}$, $13\frac{1}{3}$, $3\frac{4}{6}$ or $3\frac{2}{3}$, $\frac{2}{1}$, $\frac{8}{1}$, $1\frac{3}{4}$ or $1\frac{3}{4}$

$8 \times \frac{3}{4}$ $\frac{24}{4}$	$8 \times 1\frac{2}{3}$ $8 \times \frac{4}{3} = \frac{40}{3}$	$2 \times 1\frac{5}{6}$ $2 \times \frac{11}{6} = \frac{22}{6}$	$2 \times \frac{10}{10}$ 2×1	$8 \times \frac{5}{5}$ 8×1	$2 \times \frac{7}{8}$ $\frac{14}{8}$
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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!

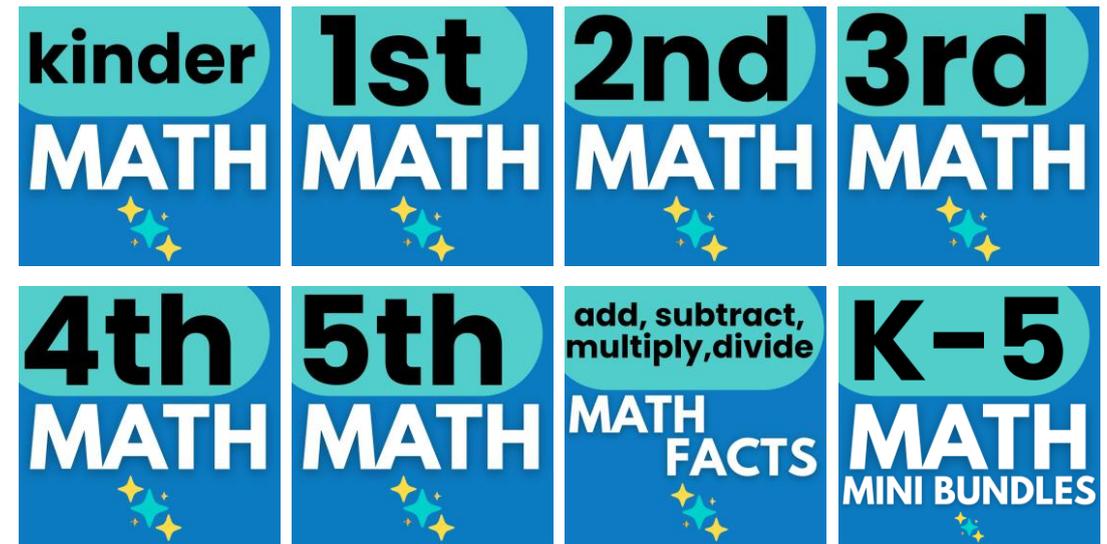
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