

# MATH

5th Grade



## THE CASE OF THE MISSING VALENTINES ESCAPE ROOM

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# Solve the Valentine's Day Mystery!

Students won't realize they are practicing important math skills! They will be immersed in the storytelling and our original videos as they complete math challenges.

Dear Student,

Where did the valentines go? On February 14th, when the kids in Ms. Heart's class came back from lunch, they found empty boxes where their handcrafted cards had been stuffed.

As an amateur sleuth, will you rule out the suspects, one by one, to solve the Valentine's Day Mystery?

Suspects to investigate:

1. Hall monitor
2. Prankster
3. Influencers
4. Quiet kid

After each challenge, add the clue to your investigating journal!

Sincerely, *Ms. Heart's Class*

Learn more!





# 4 Mathematics Challenges

- Challenges focused on important math skills
- Each challenge takes about 20-30 minutes

Learn more!



## Challenge #1



- Solve each operations problem.
- Record answers on your brochure.
- Check your answers in the Valentine Decoder.
- Add the clue to the journal.
- Scan the QR code in the corner of the next page.
- Move on to the challenge #2.

- Find the correct expression for the following statement.

The hall monitor counted 2 times as many walkers on Wednesday as she counted on Tuesday, plus 3 more walkers.

- $(2 \times t) - 3$
- $(2 \times w) + 3$
- $(2 \times t) + 3$
- $(2 \times w) - 3$

- Find the written expression.

The prankster's favorite number is 9,009. Purple hearts all over the school. How many times less is the 9 in the thousands place than the 9 in the tens place?

- 10 times less
- 100 times less
- 90 times less
- 1,000 times less

- The principal challenged the students to raise money for the local soup kitchen. Ms. Heart asked her students to look at the number and answer the question below.

How many times greater is the 2 in the thousands place than the 2 in the tens place?

- 100 times greater
- 20 times greater
- 10 times greater
- 50 times greater

Money earned	Expanded form
\$1,450.09	

- $1,000 + 400 + 5 + \frac{9}{100}$
- $1,000 + 400 + 50 + \frac{9}{100}$
- $1,000 + 400 + 50 + \frac{9}{10}$
- $1,000 + 400 + 50 + \frac{90}{100}$

- The principal announced that the 5th graders collected the most money for the soup kitchen and earned an extra recess. The students collected \$3,079.05. Which answer correctly rounds the amount collected to the nearest tenth?

- \$3,080.00
- \$3,079.10
- \$3,079.00
- \$3,080.10

- Ms. Heart sorted pennies to use in math centers on Valentine's Day. She made the table below to prepare the centers.

Center	1	2	3	4
Value of pennies	\$5.86	\$6.27	\$5.49	\$6.45

- The students weighed bags of chocolate candies in a math center on Valentine's Day. Your bag weighed 6.79 pounds. Your partner's bag weighed 7.36 pounds. What is the combined weight of the two bags of chocolates candies.

- 14.05 pounds
- 14.15 pounds
- 13.15 pounds
- 14.25 pounds

The prankster said that if he rounded the dollar amounts to the nearest whole number, 3 will round to the same number. Which 3 numbers round to the same number?

- \$6.27, \$5.49, \$6.45
- \$5.86, \$6.27, \$5.49
- \$5.86, \$6.27, \$6.45
- The prankster is incorrect.

Scan the QR code or click [here](#) to view the video.



## Challenge #2



- Solve each place value problem.
- Record answers on your brochure.
- Check your answers in the Valentine Decoder.
- Add the clue to the journal.
- Scan the QR code in the corner of the next page.
- Move on to the challenge #3.

- The prankster scattered pink and red paper hearts throughout the school. The students collected 12,822 hearts throughout the school. Ms. Heart asked her students to look at the number and answer the question below.

How many times greater is the 2 in the thousands place than the 2 in the tens place?

- 100 times greater
- 20 times greater
- 10 times greater
- 50 times greater



# 4 Mathematics Challenges

- Themed videos integrated throughout the Escape Room to keep kids engaged.
- Students work in groups, partners, or independently.

Learn more!

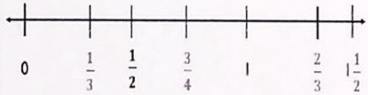


## Challenge #3



- Solve each fraction problem.
- Record answers on your brochure.
- Check your answers in the Valentine Decoder.
- Add the clue to the journal.
- Scan the QR code in the corner of the next page.
- Move on to the challenge #4.

- The influencers used the benchmark fraction  $\frac{1}{2}$  and  $1$  to place these fractions on the number line. Which fraction is placed incorrectly?



- $\frac{1}{3}$
- $\frac{2}{3}$
- $1\frac{1}{2}$
- $\frac{3}{4}$



- The influencers made popcorn for their afterschool meeting. Each person was given  $1\frac{2}{8}$  of a cup of popcorn to eat at the meeting. There were 12 influencers at the meeting. Which mixed number represents the total number of cups of popcorn that was made for the meeting?

- $22\frac{1}{8}$  cups of popcorn
- $22\frac{1}{2}$  cups of popcorn
- $22\frac{1}{2}$  cups of popcorn
- $22\frac{1}{2}$  cups of popcorn

- Mr. White shared a math activity with his class for Valentine's Day. He measured water and found that it took 12 seconds to fill a student's cup. How much water did he use?

- $1\frac{1}{8}$
- $1\frac{1}{2}$
- $1\frac{1}{2}$
- $1\frac{1}{2}$

## Challenge #4



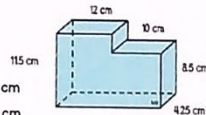
- Solve each word problem.
- Record answers on your brochure.
- Check your answers in the Valentine Decoder.
- Add the clue to the journal.
- Scan the QR code in the corner of the next page.
- Move on to the challenge #4.

- The quiet kid loves to bake. Last night, he made cakes to share with your class and Mr. White's class. He needed  $2\frac{2}{3}$  cups of flour. He decided to use 4 cups of flour. How much flour did he have left?

- There are 24 students in Ms. Heart's class and 16 students in Mr. White's class. The quiet kid cut a cake into 16 slices and gave a piece to each student. How many slices of cake will there be left after the student gets one?

- 4 slices
- 3 slices
- 2 slices
- 1 slice

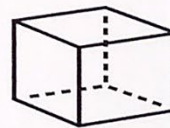
- The quiet kid's box to hold his Valentine's Day cards was found in the nurse's office. Find the volume of the quiet kid's box.



- 947.75 cubic cm
- 947.50 cubic cm
- 947.25 cubic cm
- 947 cubic cm

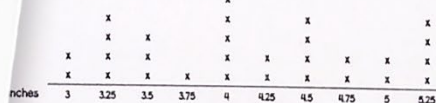
- The hall monitor found a large box hidden in the custodian's closet. It was filled with Valentine's Day cards. The box had the following dimensions. What is the volume of the box?  
 $8\frac{1}{4}$  feet long x  $4\frac{1}{2}$  feet tall x 6 feet wide

- $222\frac{1}{4}$  cubic feet
- $222\frac{3}{4}$  cubic feet
- $222\frac{1}{2}$  cubic feet
- $222\frac{2}{3}$  cubic feet



sorted Valentine's Day cards your class their size. Then, she displayed the cards on a line plot. Read the data and find the statement that is not true.

Valentine's Day Cards sorted by size.

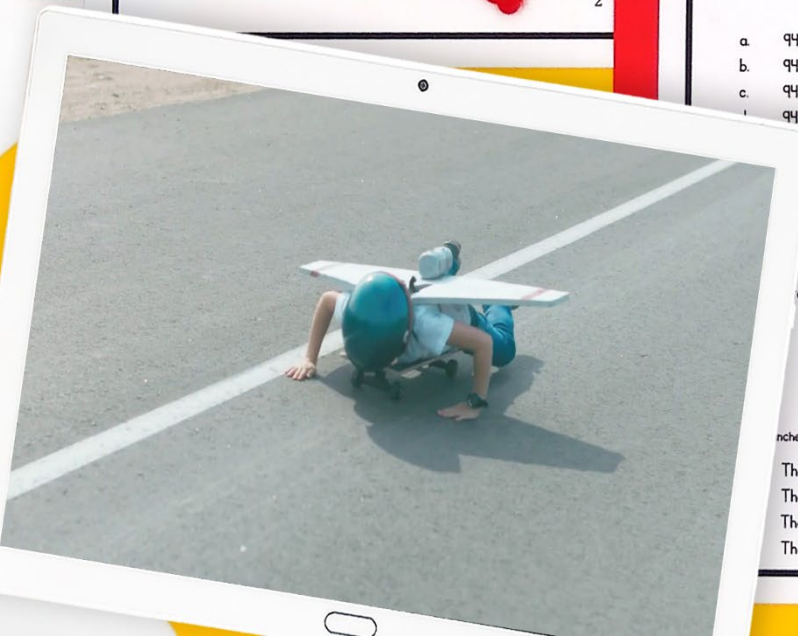


The difference in size between the largest and smallest card is 2.25 inches. There were 29 Valentine's Day cards made by your class. There are four sizes that have the same number of cards made. The greatest number of cards made is the 4.5-inch card.

Scan the QR code or click [here](#) to view the video.



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## Challenge #1

1. Solve each operations problem.
2. Record answers on your brochure.
3. Check your answers in the Valentine Decoder.
4. Add the clue to the journal.
5. Scan the QR code in the corner of the next page.
6. Move on to the challenge #2.



1. Find the correct expression for the following statement.

The hall monitor counted 15 fewer students riding the bus on Tuesday than on Monday.

- a.  $t - 15$
- b.  $m - 15$
- c.  $15 + m$
- d.  $15 - t$

## 1. Working with expressions

Find the correct expression for the following statement.

*The hall monitor counted 15 fewer students riding the bus on Tuesday than on Monday.*



- a.  $t - 15$
- b.  $m - 15$
- c.  $15 + m$

## 1. Working With Expressions



Find the correct expression for the following statement.

*The hall monitor counted 15 fewer students riding the bus on Tuesday than on Monday.*

$t - 15$

$m - 15$

$15 + m$




$15 - t$

# 3 Versions

- Print
- Google Slides
- Webscape™ (Our most popular experience)

Learn more!



	<b>PDF</b> 	<b>Google Slides</b> 	<b>Webscape™</b> 
<b>Format Type</b>	Printable	Digital	Digital
<b>Device</b>	N/A	Any Device	Any Device
<b>Required Prep</b>	Print & Go	Copy & Share	Zero Prep
<b>Student Answers</b>	Printable Answer Pamphlet	Google Sheets Decoder Tool	Integrated Challenge Hub
<b>Self Correcting</b>	Includes Answer Key	Self Correcting	Self Correcting
<b>Custom Videos</b>	QR Codes	Embedded You Tube	Embedded
<b>Audio Readings</b>	N/A	No Audio Readings	Contains Audio Readings
<b>Navigation</b>	N/A	Student Directed	Automatically Advancing
<b>Extras</b>	Early Finish Challenges	Movable Pieces	Interactive Animation

## 3 Versions

- Print
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*Learn more!*





# Print

- Cut and paste stamps for each challenge
- Easy to follow
- Optimal for group or partner work
- Recording brochure for answers
- Self-checking decoder
- Certificate of completion

Learn more!





# Print

- OOPS! Cards for differentiation

Learn more!



## The Case of the Missing Valentines

Harper Brown

(name)

has successfully completed the challenges and cracked the case!

Scan the QR code or click [here](#) to view the video.

16/02

(Date)

Ms. Heart's Class



LOVE  
XOXO

Oops!  
Cupid hit you with his arrow!

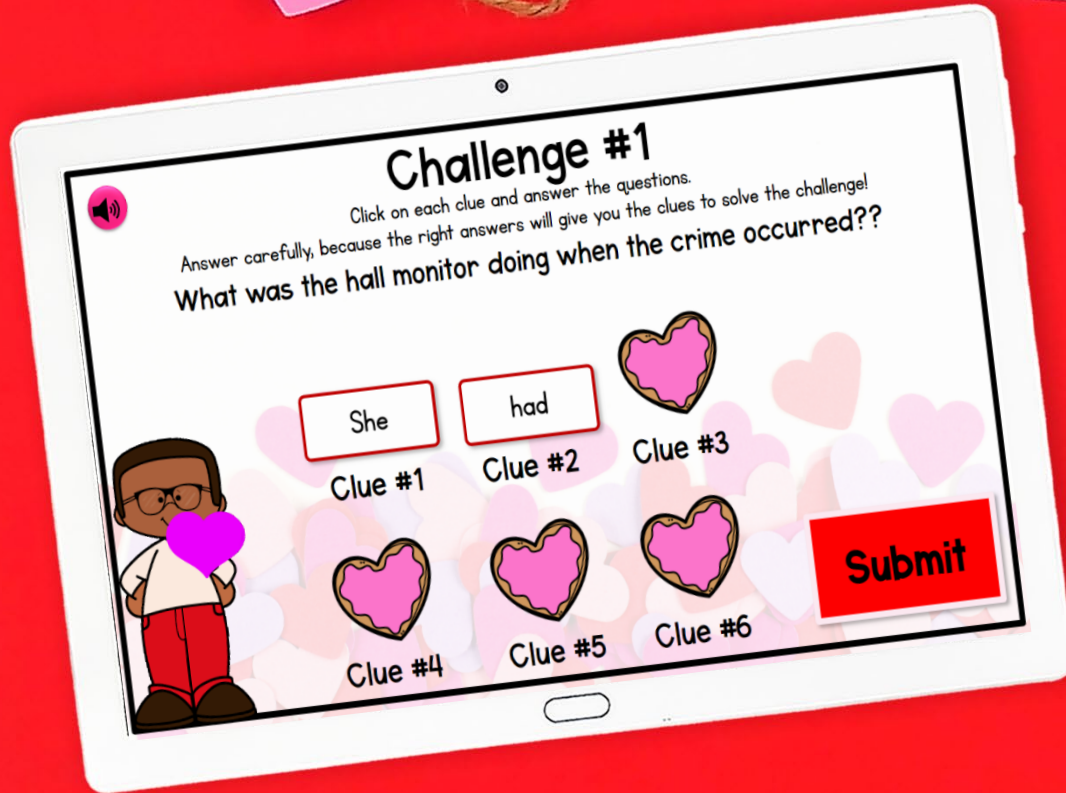


YOU MUST STAY QUIET FOR 5  
MINUTES. NO SPEAKING!

©Julie Bochesse



# Webscape <sup>TM</sup>



- Most interactive experience
- Self correcting
- Embedded videos
- Embedded audio
- Animation
- Simple navigation

Learn more!



# Webscape <sup>TM</sup>

- No log ins or sign ups
- Works with any device that has an internet connection and web browser
- Zero prep! Just share the link with your students.

Learn more!



# LOVE



CLUE #3:  
The influencers spent lunch posing for one big collab and the timestamps don't lie. You had to rule them out.

You heard the influencers say they stayed up late last night to do their tricks. This makes them suspects. Click the clue to paste it into your notebook. You will need it later. Then, continue to your next challenge.

# XOXO



# Google Slides

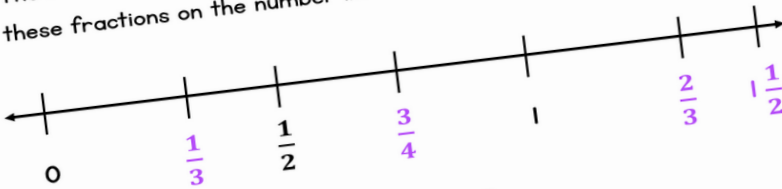
- One problem per slide
- Students drag to circle their answers

Learn more!



## 1. Solve the fraction problem.

The influencers used the benchmark fraction  $\frac{1}{2}$  and 1 to place these fractions on the number line. Which fraction is placed incorrectly?



a.  $\frac{1}{3}$

b.  $\frac{2}{3}$

c.  $\frac{1}{2}$

d.  $\frac{3}{4}$

# Google Slides

- Toggle to self-checking decoder
- Decoder will prompt at the end of each challenge whether students are correct or need to check their work.

Learn more!





# Looking for More?

## ESCAPE ROOM BUNDLE Math Skills

5th Grade



Math Escape Rooms

2nd Grade 3rd Grade 4th Grade 5th Grade


Telling Time: Time Machine Escape Room

ENGAGE VIDEO TELL THE STORY

Print and Digital

## Graphing Points Baking Escape Room

5th Grade



Dear Student,

We love baked goods of all kinds. The boss the best treats you can. Prove you can make the boss will let you go.

You must make these 4 items:

1. Donuts
2. Gingerbread cookies
3. Pie
4. Cake

After each challenge, add the item to the boss.


Sincerely,  
The Cookie Criminal

Print and Digital

Magi CORE

## MATH: Classify Shapes Catch the Bandit Escape Room

5th Grade



Dear Student,

You're having a great time visiting the big city! But while you're out seeing the sites, petty crime caught up with you. A bandit stole some money out of your backpack.

You must follow the bandit to catch him and get your money back.

1. Go to the waterfront.
2. Go to Chinatown.
3. Go to the park.
4. Go to Downtown.

After each challenge, add the pin to your map to catch the bandit.

Sincerely,  
Friendly Neighborhood Crime Watchers

Print and Digital

Magi CORE