

# MATH

2nd 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

## Challenge #1



1. Solve each addition or subtraction 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. The hall monitor counted the number of students in her hallway on Monday morning. Some arrived by car, and some arrived by bus. Help her find the total number of students in her hallway on Monday morning.

56 students arrived by car and  
43 students arrived on the bus

- a. 88 students
- b. 99 students
- c. 98 students
- d. 89 students

2. The hall monitor counted 96 students in her hallway on Tuesday morning. Forty-nine arrived by car and the rest arrived by bus. Help her find the number of students who arrived by bus.

49 students arrived by car and  
? students arrived by bus

- a. 45 students
- b. 46 students
- c. 47 students
- d. 48 students

3. The hall monitor counted 96 students in her hallway on Tuesday morning. She used the "take tens" strategy to find the number of students who arrived by bus. She did the following work:

$$\begin{array}{r} 37 \\ + 30 \\ \hline 67 \end{array}$$

First, she added the tens.  
Then she added the ones.  
The answer shows her work.

## Challenge #2



1. Solve each place value 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 #3.

1. Ms. Heart arranged Valentine's Day candy in a long row on her classroom counter. She asked her students to find an efficient way to determine how many candies were on the counter. You can use the following information:

2. The prankster scattered pink and red paper hearts throughout the school. The students collected them and put them in a bin in the office. Ms. Heart asked you to use the table to find the missing number:

Numeral	Name	Expanded Form
	Eight hundred fifty-two	$800 + 50 + 2$

- a. 825
- b. 855
- c. 85
- d. 852

3. More hearts were found on the playground. Students collected them and put them in the bin in the office. Ms. Heart asked you to complete the table. Find the answer that shows the missing information.

Color	Numeral	Name	Expanded Form
Red	76	seven hundred fifteen	$700 + 10 + 5$
Pink	909		

- a. nine hundred nineteen,  $900 + 9$
- b. nine hundred nine,  $900 + 9$
- c. nine hundred nine,  $900 + 0 + 9$
- d. nine hundred ninety,  $900 + 9$

## Challenge #3



1. Solve each geometry 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 #4.

1. Find the answer that shows the correct names of the 2-D shapes.



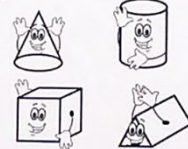
- a. Triangle, Rectangle, Oval, Hexagon
- b. Triangle, Pentagon, Oval, Hexagon
- c. Triangle, Hexagon, Oval, Pentagon
- d. Triangle, Hexagon, Oval, Octagon

2. The influencers want to trick you. They think you do not know how many sides and vertices you would find on this shape. Find the correct answer.



- a. 8 sides, 8 vertices
- b. 6 sides, 7 vertices
- c. 7 sides, 7 vertices
- d. 6 sides, 6 vertices

3. Find the answer that shows the correct names of the 3-D shapes.



- a. Cube, Pyramid, Cylinder, Triangular Prism
- b. Cube, Pyramid, Cylinder, Cone
- c. Rectangular Prism, Triangular Prism, Cube, Cone
- d. Cube, Triangular Prism, Cylinder, Cone

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

Learn more!





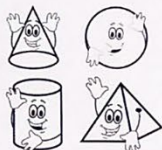
# 4 Mathematics Challenges

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

Learn more!



4. The influencers are at it again. They want to trick you. They think you will not be able to find the shape that has two flat sides and no vertices. Which answer is correct?



- Cone
- Sphere
- Cylinder
- Pyramid

5. All the students covered boxes with paper to hold their valentines by following the directions Ms. Heart gave them. The first step was to

6. One of the influencers brought pizza for lunch. She cut it into three equal slices. The shaded area shows how much pizza she ate during lunch. Find the answer that shows the name of the portion she ate.



- two thirds
- one third
- two halves
- one half

## 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.

1. The quiet kid was adding up chocolate candies. He counted 125 candies wrapped in silver foil and 181 wrapped in red foil. Help him add to find the total number of chocolate candies. Find the correct answer:

$$125 + 181 = ? \quad 100 + 20 + 5 \\ + 100 + 80 + 1$$

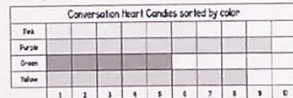
- 296 candies
- 265 candies
- 306 candies
- 360 candies

2. The quiet kid had trouble regrouping and asked you to explain how to do that with this problem. Find the response.

$$125 + 181 = ? \quad 100 + 20 + 5 \\ + 100 + 80 + 1$$

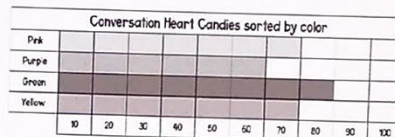
- Since  $20 + 80 = 100$ , you must add the 100 to the tens place.
- Since  $20 + 80 = 100$ , you must add the 100 to the hundreds place.
- Since  $100 + 100 = 200$ , you must add the tens to the hundreds place.
- Since  $5 + 1 = 6$ , you do not need to regroup.

3. Ms. Heart had a math project for you to do. She gave everyone a box of Conversation Heart candies to sort. The bar graph shows data from your box of candy hearts. Find the statement that is not true.



- There are 28 candy hearts in all.
- There are 2 less pink candy hearts than yellow candy hearts.
- There are 4 more purple candy hearts than green candy hearts.
- There are 3 more yellow candy hearts than pink candy hearts.

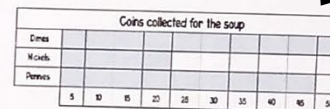
4. Ms. Heart created a bar graph of the candy hearts from your whole class. Use the data to find the statement that is not true.



- There are more than 280 candies in all.
  - There are 10 less purple candy hearts than yellow candy hearts.
  - There are 20 more green candy hearts than purple candy hearts.
  - There are the same number of pink and yellow candy hearts.
5. Your classroom collected coins for Valentine's Day to donate to the local soup kitchen. The quiet kid brought in 2 quarters, 3 dimes, 1 nickel, and 6 pennies to add to the collection. Find the equation that shows how much money he brought to school.

- $40¢ + 30¢ + 5¢ + 6¢ = 81¢$
- $50¢ + 30¢ + 5¢ + 6¢ = 91¢$
- $50¢ + 15¢ + 10¢ + 6¢ = 81¢$
- $50¢ + 30¢ + 10¢ + 6¢ = 96¢$

6. Ms. Heart removed the dimes, nickels, and pennies from the money collected for the soup kitchen. She created the bar graph to help compare the amount of money collected. Which answer shows the correct values?



- 50 dimes = \$5.00, 20 nickels = \$2.00, 45 pennies = \$4.50
- 50 dimes = \$5.00, 20 nickels = 20¢, 45 pennies = 45¢
- 50 dimes = 50¢, 20 nickels = \$2.00, 45 pennies = 45¢
- 50 dimes = \$5.00, 20 nickels = \$1.00, 45 pennies = 45¢

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



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Solve the addition problem.

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99

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89

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

*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!

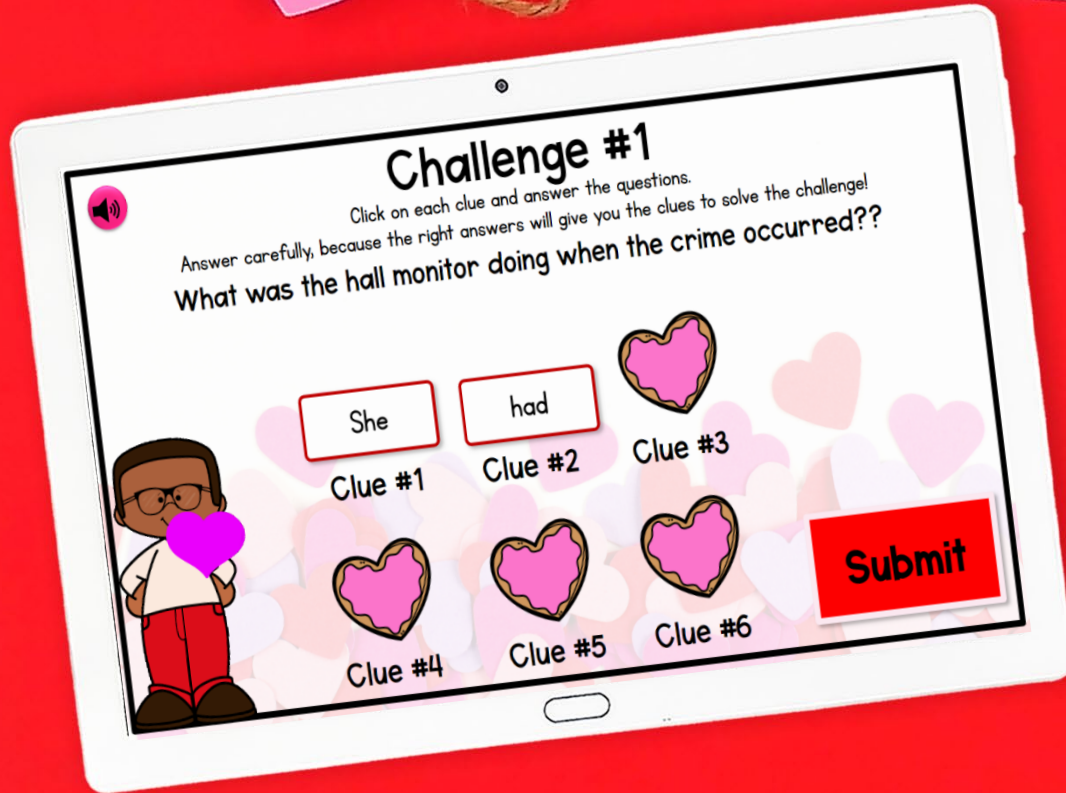
Cupid hit you with his arrow!



YOU MUST STAY QUIET FOR 5 MINUTES. NO SPEAKING!



# 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

XOXO

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.



# Google Slides

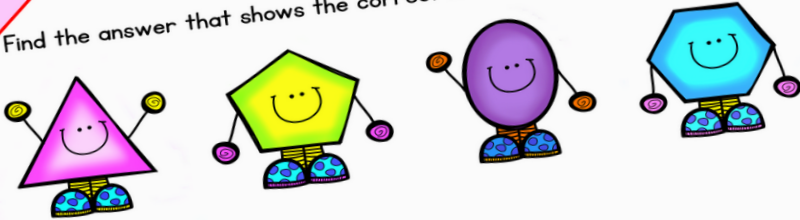
- One problem per slide
- Students drag to circle their answers

Learn more!



## 1. Solve the geometry problem.

Find the answer that shows the correct names of the 2-D shapes.



- ☐ a. Triangle, Rectangle, Oval, Hexagon  
b. Triangle, Pentagon, Oval, Hexagon  
c. Triangle, Hexagon, Oval, Pentagon  
d. Triangle, Hexagon, Oval, Octagon

# 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

2nd Grade



Math Escape Rooms

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

Telling Time: Time Machine Escape Room

Print and Digital

## 2D & 3D Shapes Catch the Bandit Escape Room

2nd 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 has stolen 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.

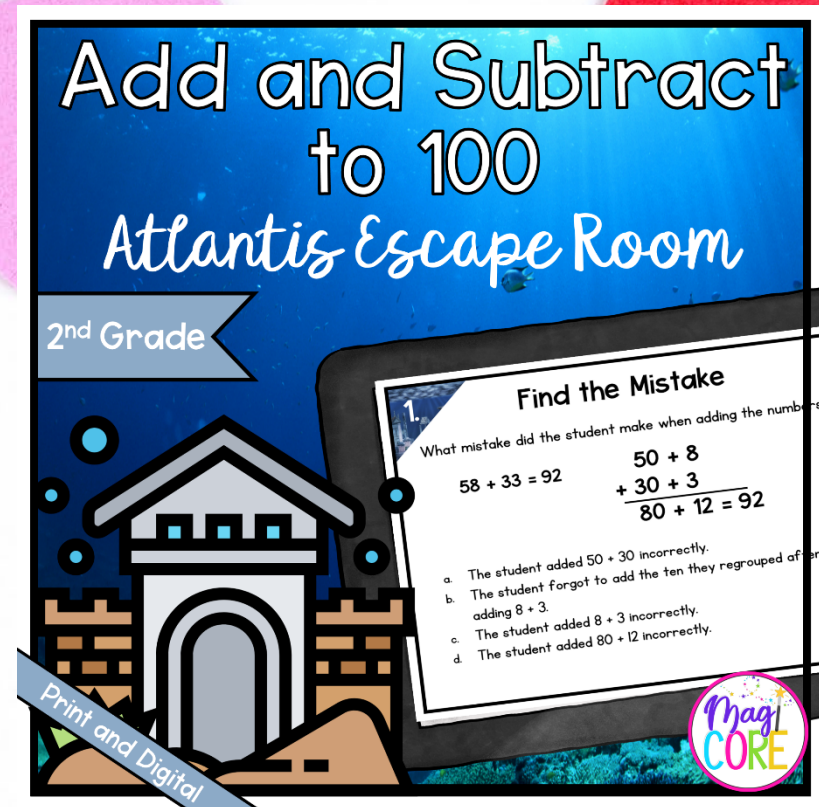
After each challenge, add the pin to your map to catch the bandit.

Sincerely,  
Friendly Neighborhood Crime Watchers

Print and Digital

## Add and Subtract to 100 Atlantis Escape Room

2nd Grade



Find the Mistake

1. What mistake did the student make when adding the numbers?

$58 + 33 = 92$

$$\begin{array}{r} 50 + 8 \\ + 30 + 3 \\ \hline 80 + 12 = 92 \end{array}$$

- a. The student added  $50 + 30$  incorrectly.
- b. The student forgot to add the ten they regrouped after adding  $8 + 3$ .
- c. The student added  $8 + 3$  incorrectly.
- d. The student added  $80 + 12$  incorrectly.

Print and Digital