

5th Grade

# GEOMETRY

## CATCH THE BANDIT ESCAPE ROOM



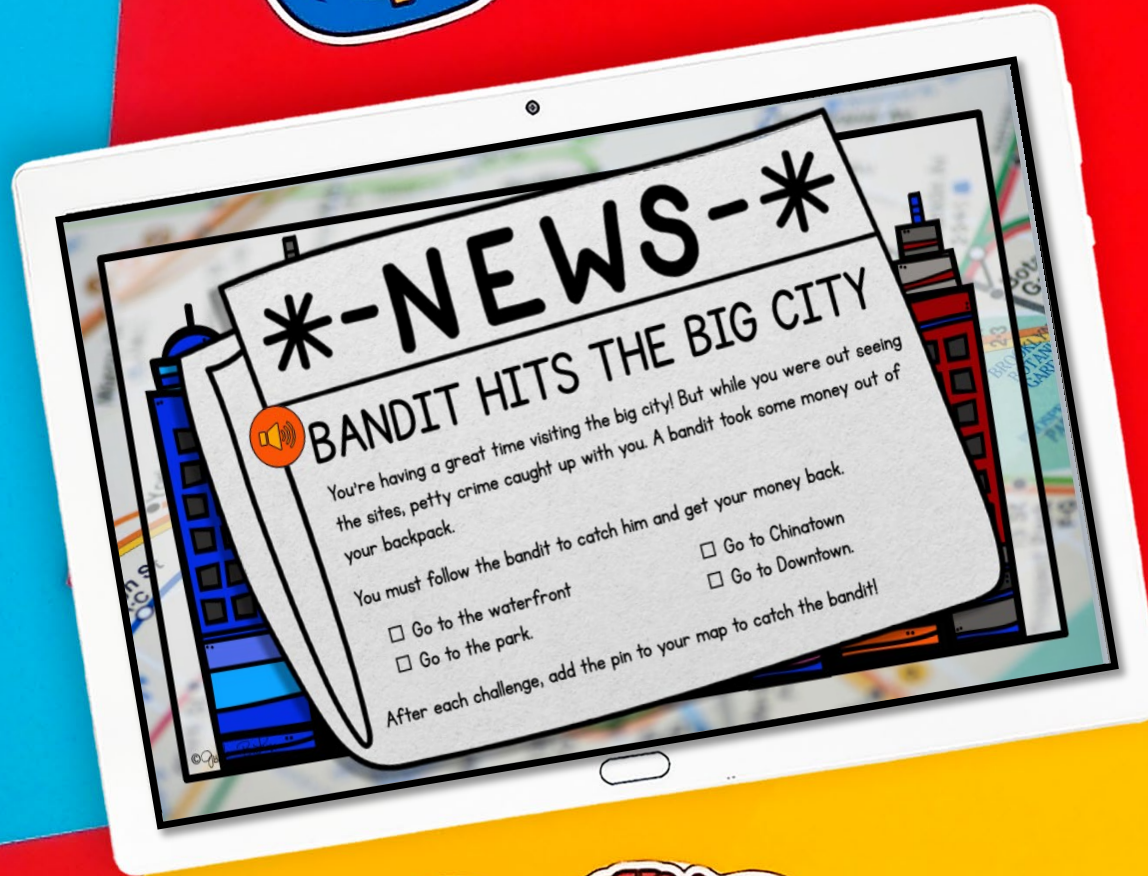
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# Catch the Bandit!

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



Learn more!





# 4 Mathematics Challenges

## Quadrilaterals Reference Page

Use the following definitions of quadrilaterals when solving the problems in this resource.

**Square:** Four equal sides, four right angles, opposite sides are parallel

**Rectangle:** Four right angles, opposite sides are equal and parallel

**Rhombus:** Four equal sides, opposite sides are parallel, opposite angles are equal

### Challenge #1

1. Solve each properties of shapes problem.
2. Record answers on your brochure.
3. Check your answers in the Bandit Decoder.
4. Add the waterfront pin to your map.
5. Scan the QR code in the corner of this page.
6. Move on to the challenge #2.

1. Read the statements below and answer the question:
  - A rectangle is a quadrilateral with 4 right angles.
  - A rhombus is a quadrilateral with 4 sides of equal length.

What is the most precise name for a shape that is both a rectangle and a rhombus?

- a. Parallelogram
  - b. Square
  - c. Trapezoid
  - d. Pentagon
2. Which of the following statements MUST be true about a rhombus?
    - a. It has 4 equal sides and 2 pairs of parallel sides.
    - b. It has 4 equal sides and 4 right angles.
    - c. It has 4 right angles and 2 pairs of parallel sides.
    - d. It has 4 pairs of parallel sides and 2 right angles.

### Challenge #2

1. Solve each properties of shapes problem.
2. Record answers on your brochure.
3. Check your answers in the Bandit Decoder.
4. Add the chintown pin to your map.
5. Scan the QR code in the corner of the page.
6. Move on to the challenge #3.

1. Select an answer to fill in the blank below:

A pentagon \_\_\_\_\_ a polygon.

- a. is sometimes
- b. is never
- c. could be
- d. is always

2. Which of the following lists only shapes that are quadrilaterals?

- a. Trapezoid, hexagon, square
- b. Square, parallelogram, right triangle
- c. Trapezoid, square, rhombus
- d. Rhombus, heptagon, rectangle

3. Which of the following statements MUST be true about a square?

- a. It has 1 pair of parallel sides and 2 right angles.
- b. It has 1 pair of parallel sides and opposite sides are equal length.
- c. It has 2 pairs of parallel sides, 4 right angles, and 4 equal sides.
- d. It has 2 pairs of opposite sides that are equal.

4. Select an answer to fill in the blank below:

A trapezoid \_\_\_\_\_ a hexagon.

- a. is always
- b. is never
- c. could be
- d. is sometimes

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

5. The birthday card below has 4 equal sides and 2 pairs of parallel sides. Which of the statements best describes the birthday card?

- a. The card is a square only.
- b. The card is a square and a trapezoid.
- c. The card is a square, a rectangle, and a rhombus.
- d. The card is a rhombus and a rectangle.

6. A square and a parallelogram are shown below. Which statement is always true of both shapes?

- a. All sides are the same length.
- b. Opposite sides are parallel.
- c. All angles are right angles.
- d. Adjacent sides are equal.

- Challenges focused on Classifying Shapes
- 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!



**Challenge #3**

- Solve each properties of shapes problem.
- Record answers on your brochure.
- Check your answers in the Bandit Decoder.
- Add the park pin to your map.
- Scan the QR code in the corner of the page.
- Move on to the challenge #4!

1. Which statement about rectangles and rhombuses is always true?

- Both figures have 4 equal sides.
- Both figures have 4 right angles.
- Both figures are quadrilaterals.
- Both figures are squares.

2. Select an answer to fill in the blank below:

An acute triangle \_\_\_\_\_ an isosceles triangle.

- is never
- could be
- is always
- cannot be

3. Which of the following shapes describes the pizza slice below?

- Figure 2
- Figure 1
- Figure 4
- Figure 3

4. Which statement about pentagons and hexagons is true?

- Both shapes have the same number of sides.
- Both shapes have right angles.
- Both shapes are polygons with no curved sides.
- Both shapes have 1 pair of parallel sides.

5. Select an answer to fill in the blank below:

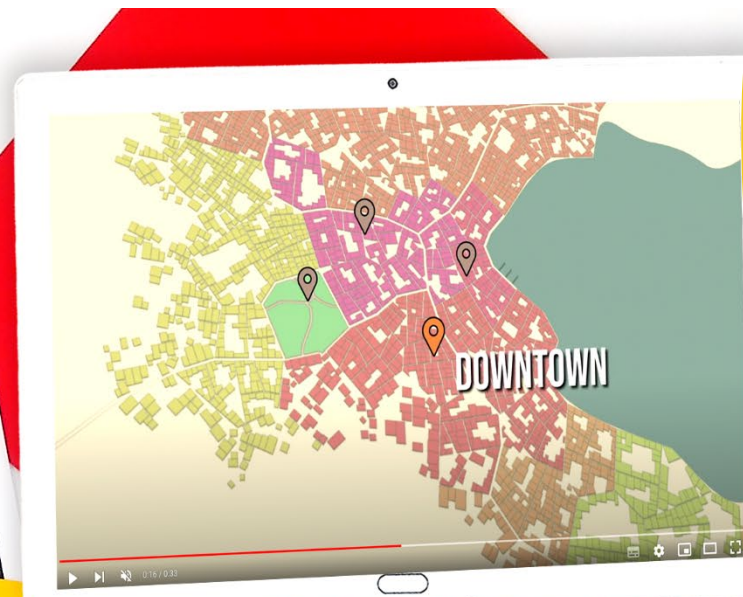
A rectangle \_\_\_\_\_ a square.

- could be
- is always
- is never
- cannot be

6. Select an answer to fill in the blank below:

An equilateral triangle \_\_\_\_\_ an acute triangle.

- could be
- is never
- is sometimes
- is always



**Challenge #4**

- Solve each properties of shapes problem.
- Record answers on your brochure.
- Check your answers in the Bandit Decoder.
- Add the downtown pin to your map.
- Scan the QR code in the corner of the next page.
- Catch the bandit!

1. What category could represent the circle on the left?

- Quadrilaterals
- Rectangles
- Parallelograms
- Rhombuses

2. What category could represent the circle on the right?

- Rectangles
- Quadrilaterals
- Rhombuses
- Parallelograms

3. All squares have 4 right angles and 4 sides that are equal in length. Which of these quadrilaterals is a square?

- Figure 2
- Figure 1
- Figure 4
- Figure 3

4. Which kind of shape is the figure below?

- Trapezoid
- Pentagon
- Hexagon
- Parallelogram

5. You sorted shapes into 2 categories. What rule did you use to sort the shapes?

Group A	Group B

All shapes in group A have at least one pair of parallel sides, but no shapes in group B have a pair of parallel sides.

The shapes in group A are quadrilaterals and no shapes in group B are quadrilaterals.

None of the shapes in group A have a right angle, but all the shapes in group B have a right angle.

The shapes in group A have sides of equal length, but the shapes in group B do not have sides of equal length.

6. What kind of quadrilateral is the shape below?

- Square
- Rhombus
- Trapezoid
- Parallelogram



## Challenge #1

1. Solve each properties of shapes problem.
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1. Read the statements below and answer the question:
  - A rectangle is a quadrilateral with 4 right angles
  - A rhombus is a quadrilateral with 4 sides of equal lengthWhat is the most precise name for a shape that is both a rectangle and a rhombus?
  - a. Parallelogram
  - b. Square
  - c. Trapezoid
  - d. Pentagon

2. Which of the following statements be true about a rhombus?
  - a. It has 4 equal sides of parallel sides.
  - b. It has 4 equal sides.
  - c. It has 4 right angles.
  - d. It has 4 pairs of parallel sides and 2 right angles.

1

## Solve the Properties of Shapes Problem

Read the statements below and answer the question:

- A rectangle is a quadrilateral with 4 right angles
- A rhombus is a quadrilateral with 4 sides of equal length

What is the most precise name for a shape that is both a rectangle and a rhombus?

The answer is:



- a. Parallelogram
- b. Square

1

Read the statements below and answer the question:

- A rectangle is a quadrilateral with 4 right angles.
- A rhombus is a quadrilateral with 4 sides of equal length.

What is the most precise name for a shape that is both a rectangle and a rhombus?

Parallelogram

Square

Trapezoid

Pentagon




## 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

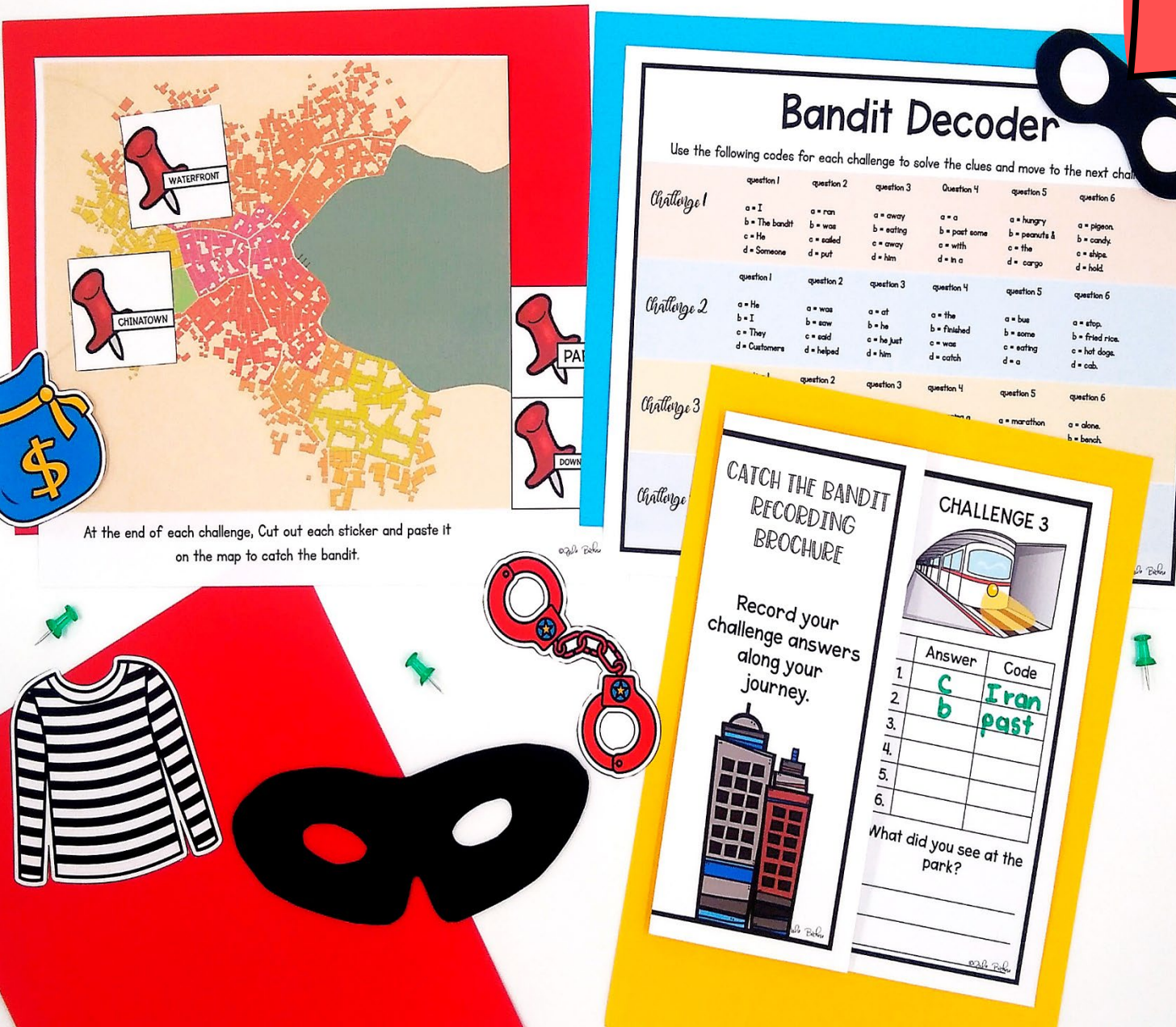
## 3 Versions

- 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!





# Catch the Bandit Escape Room

Jhon Brown

(name)

has successfully completed the challenges and caught the bandit.

7/05

(Date)

Neighborhood  
Crime Watchers

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



©2016 Baker



## Print

- OOPS! Cards for differentiation

### Ooops!

You got lost in the park.



NO HELPING YOUR TEAM FOR 3  
MINUTES!

©2016 Baker

Learn more!

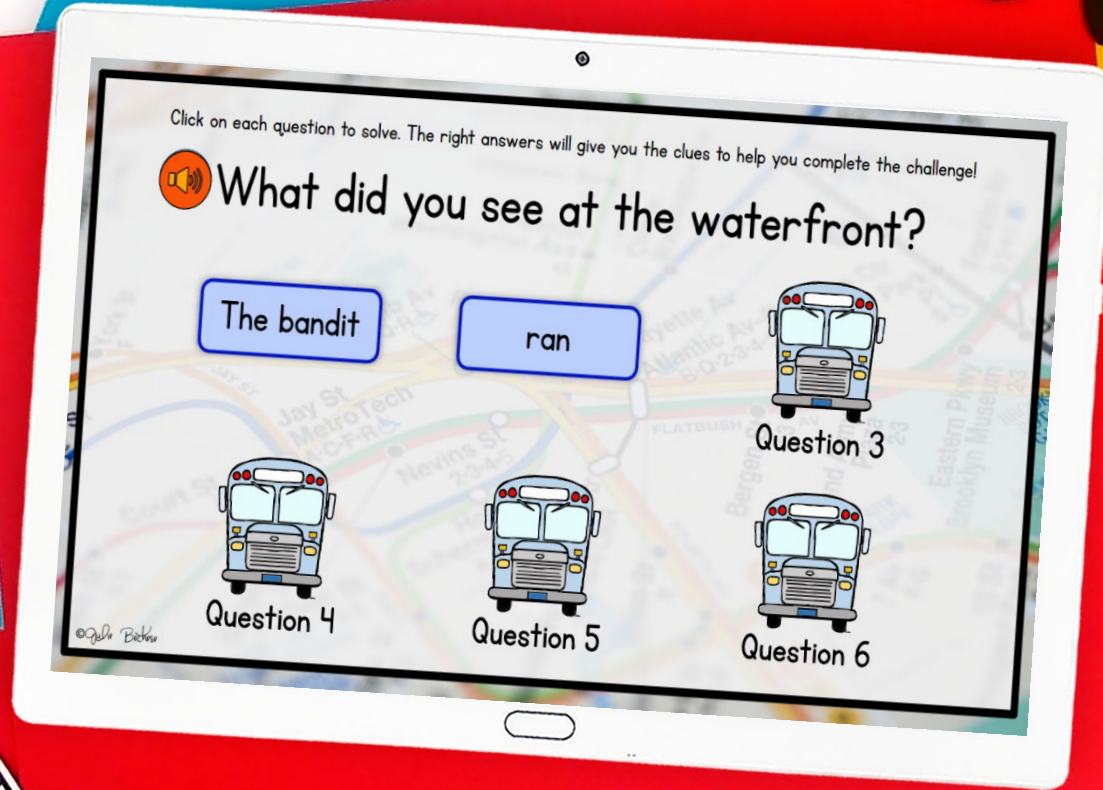




# Webscape <sup>TM</sup>

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

Learn more!

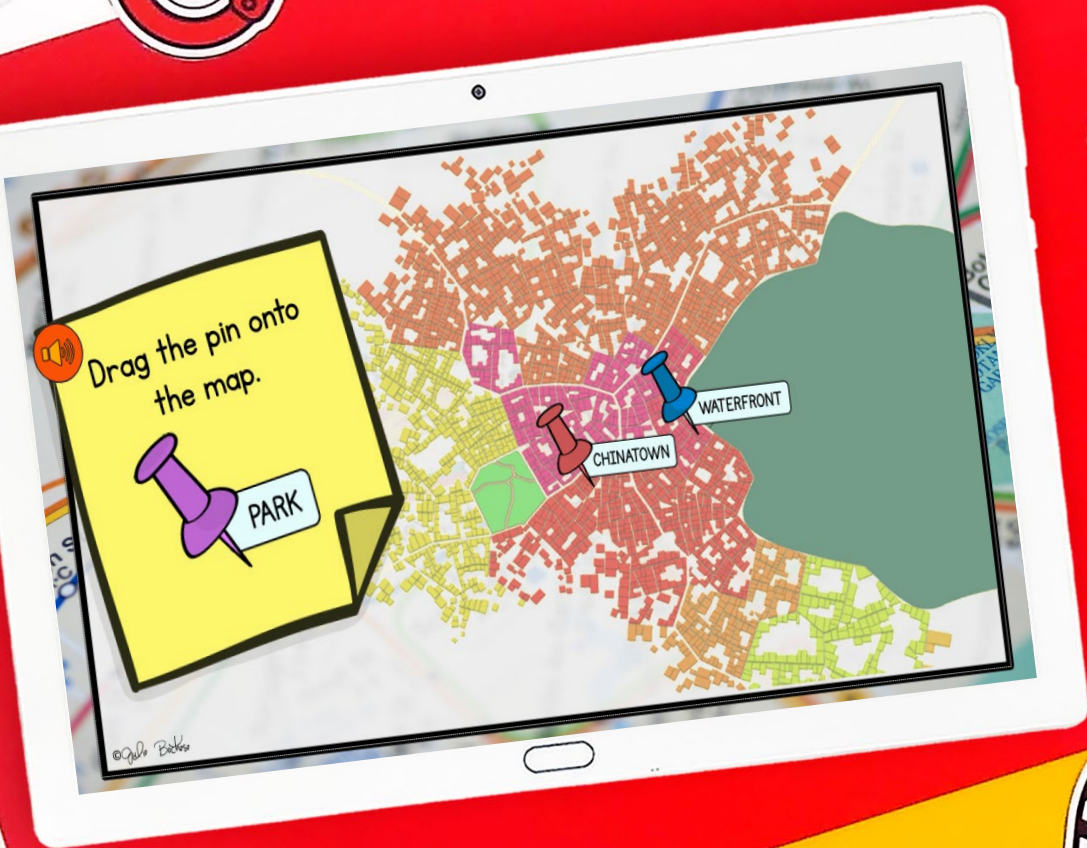




# Webscape <sup>TM</sup>

- 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!*





# Google Slides

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

Learn more!



**1** Solve the Properties of Shapes Problem

What category could represent the circle on the left?

The answer is:

- a. Quadrilaterals
- b. Rectangles
- c. Parallelograms
- d. Rhombuses

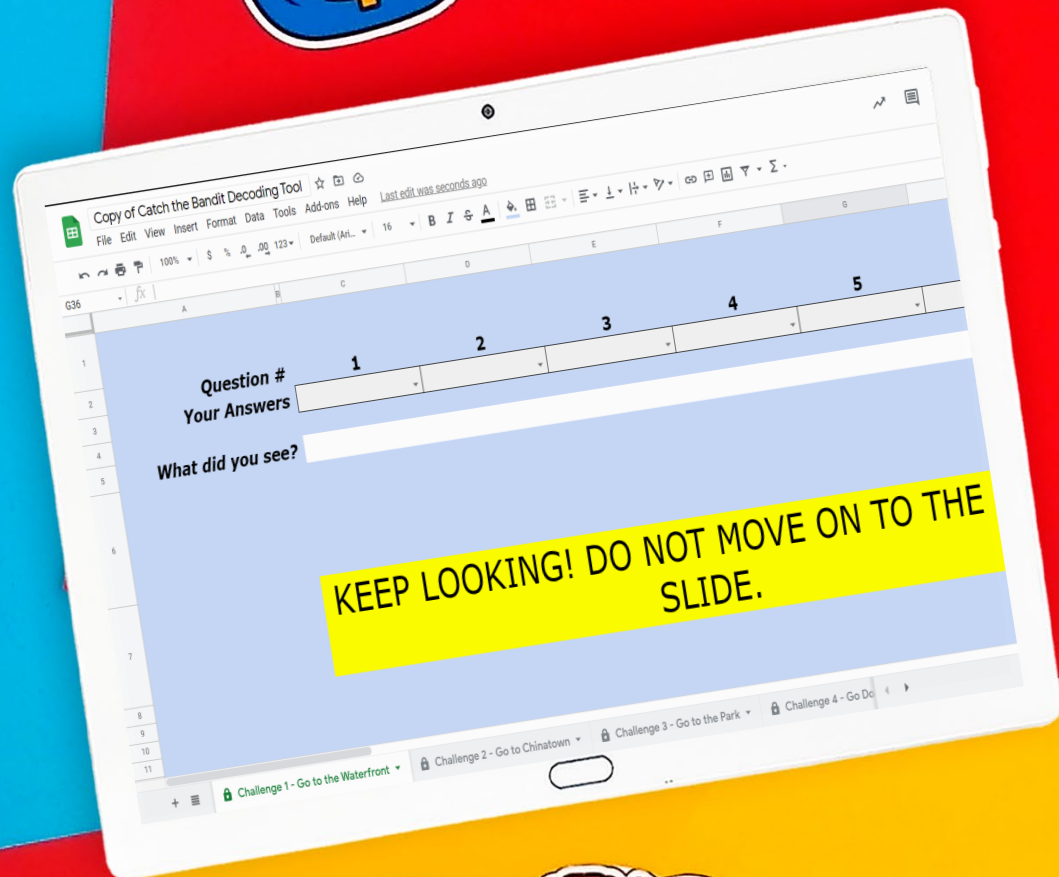
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# Google Slides

- 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

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

## MULTIPLYING & DIVIDING FRACTIONS

5th Grade



## HAUNTED TRAIN ESCAPE ROOM

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