MULTIPLICATION & DIVISION

MERMAID TREASURE ESCAPE ROOM

MagiCore
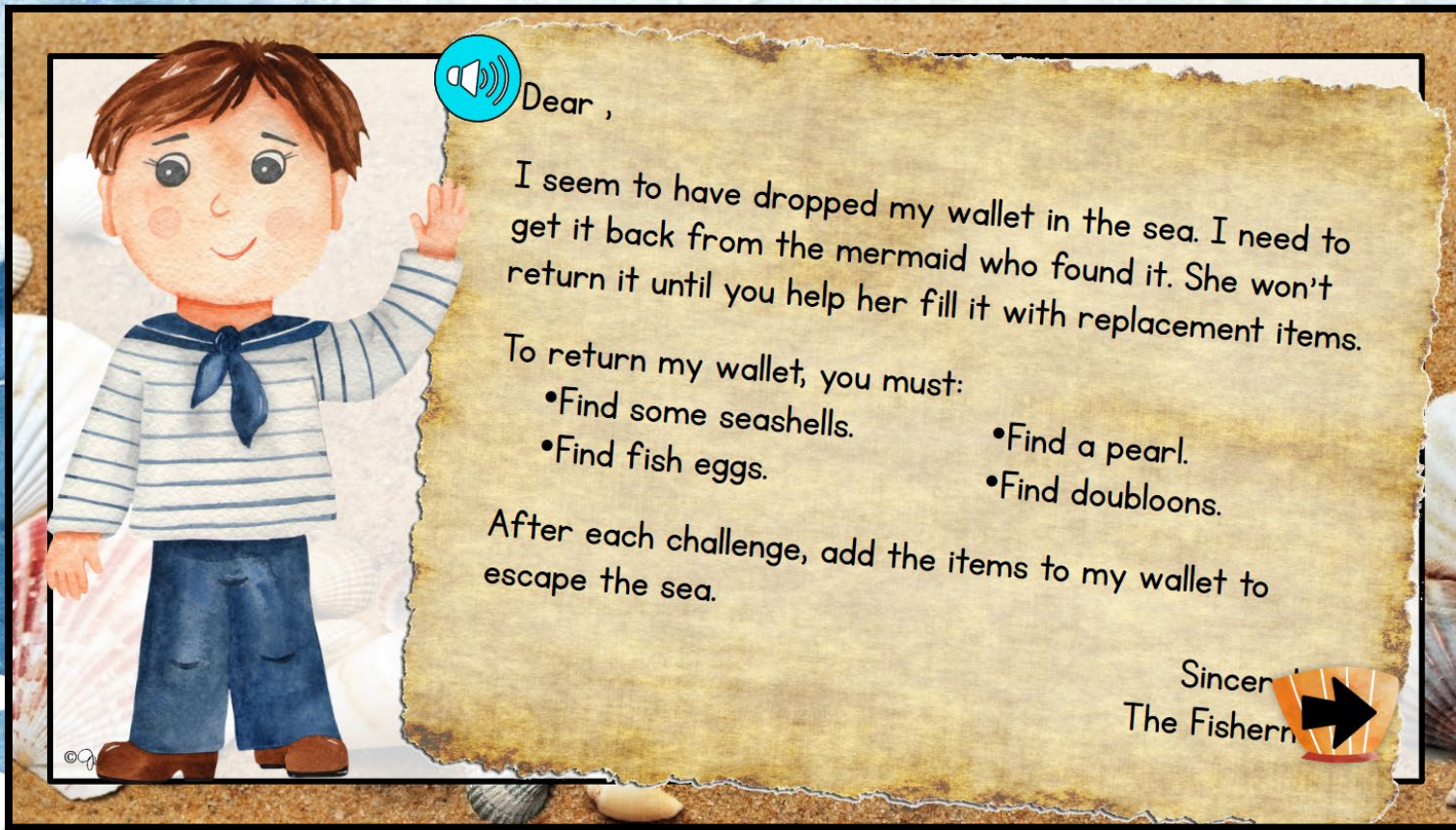
PRINTABLE • GOOGLE • WEBSCAPE™

Dear ,

I seem to have dropped my wallet in the sea. I need to get it back from the mermaid who found it. She won't return it until you help her fill it with replacement items.

To return my wallet, you must:
• Find some seashells.
• Find fish eggs.
• Find a pearl.
• Find doubloons.

After each challenge, add the items to my wallet to escape the sea.

Sincerely,
The Fisherman

Help the Fisherman!

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

Learn more!

4 Mathematics Challenges

- Challenges focused on Multiplication & Division skills

- Each challenge takes about 20-30 minutes

Learn more!

Challenge #1

1. Solve each division problem.
2. Record answers on your brochure.
3. Check your answers in the Mermaid Decoder.
4. Add the seashells to the wallet.
5. Scan the QR code on the next page.
6. Move on to challenge #2.

1. The mermaid uses 360 seashells to make an array on the beach. The array had 15 rows. Which equation could you use to determine how many seashells were in each row of the array?

   a. $360\overline{)15}$

   b. 15 x 360

   c. $15\overline{)360}$

   d. 15 ÷ 360

2. There are 24 types of seashells scattered along the beach. In one 20-foot-long stretch of beach, there are 792 shells. If there is an equal number of each type of shell, how many of each type are on this section of the beach?

   a. 33 seashells

   b. 24 seashells

   c. 38 seashells

   d. 41 seashells

3. You find some sea glass as you walk along the [beach]. When you get home, you add it to the jars [in] your sea glass collection. You have 468 pie[ces of sea] glass in [...]

Challenge #2

1. Solve each word problem.
2. Record answers on your brochure.
3. Check your answers in the Mermaid Decoder.
4. Add the fish eggs to the wallet.
5. Scan the QR code on the next page.
6. Move on to challenge #3.

1. A clownfish lays 5,568 eggs in one season. She lays 96 eggs in each clutch (cluster of eggs laid at one time). How many clutches does [she] lay per season?

   a. 62 [...]

2. An angelfish has a lifespan of 12 years. During its life, a female angelfish will lay clutches of eggs 336 times. If the angelfish laid the same number of clutches each year, how many times does the fish lay eggs per year?

   a. 28 times

   b. 18 times

   c. 36 times

   d. 24 times

[...] of 816 fish swim in an array. There are [...] fish. How many fish are in each row?

4. At low tide, there are some fishermen looking for clams in the sand. The fishermen have found 2,145 clams so far, and they divided the clams equally among 33 buckets. You used long division to determine that there are 65 clams in each bucket. Which equation could you use below to check your answer?

   a. 33 + 65

   b. 65 - 33

   c. 33 x 65

   d. 65 + 33

5. There are 15 fishermen clamming. Once they are done, each fisherman takes an equal amount of the 2,145 clams. They use the area model below to determine how many clams each person should take. How many clams does each fisherman take?

	100 clams	30 clams	10 clams	3 clams
15 fishermen	2,145 − 1,500 = 645	645 − 450 = 195	195 − 150 = 45	45 − 45 = 0

   a. 100 clams

   b. 57 clams

   c. 133 clams

   d. 143 clams

6. You find a message in a bottle floating in the water. The message contains the division problem below. What error can you find in the division problem?

$$35\overline{)4,620} = 1,320$$
$$-35$$
$$\overline{112}$$
$$-105$$
$$\overline{70}$$
$$-70$$
$$\overline{0}$$
$$-0$$
$$\overline{0}$$

   a. There is no error. The answer is correct.

   b. The remainder is missing from the quotient.

   c. They forgot to bring down the 6 from the dividend when dividing.

   d. The 1 in the quotient was written in the thousands place when it should have been in the hundreds place.

Scan the QR code or click here to view the video.

Challenge #3

1. Solve each problem with decimals.
2. Record answers on your brochure.
3. Check your answers in the Mermaid Decoder.
4. Add the pearls to the wallet.
5. Scan the QR code on the next page.
6. Move on to challenge #4.

1. The mermaid has two pearls. One weighs 0.56 grams. The other weighs 0.75 grams. What is the total weight of the pearls?

   a. 0.131 grams
   b. 1.31 grams
   c. 1.21 grams
   d. 2.31 grams

2. The mermaid uses some pearls to make a necklace. She has a roll of fishing line that is 4.25 yards long. She uses 0.68 yards to make the necklace. How much fishing line is left on the roll?

   a. 4.93 yards
   b. 3.67 yards
   c. 3.57 yards
   d. 3.56 yards

3. The mermaid shows you three pearls. The pearls weigh 1.08 grams, 0.85 grams, and 0.93 grams. What is the weight of the three pearls altogether?

   a. 2.76 grams
   b. 2.96 grams

4. The table below shows the diameters of different oysters where the mermaid found pearls. How much bigger was the diameter of the biggest oyster than the smallest oyster?

Oyster Number	#1	#2	#3	#4	#5
Diameter (inches)	4.56	3.87	5.4	3.79	5.26

   a. 1.61 inches
   b. 1.25 inches
   c. 1.47 inches
   d. 1.53 inches

5. The mermaid found a sixth pearl inside another oyster. This oyster has a diameter that is 1.04 inches less than the oyster in the table above with the second-largest diameter. What is the diameter of this new oyster?

   3.52 inches   4.22 inches
   4.22 inches   5.60 inches

6. The mermaid wants to create a table below with the weights of the oysters, but some of the information is missing. Use the clues to fill in the table. Then, answer the question.

Oyster Number	#1	#2	#3	#4	#5
Weight (grams)		19.81			22.05

CLUES:
- Oyster #1 weighs 1.51 grams less than oyster #5
- Oyster #3 weighs 3.37 grams more than oyster #1
- Oyster #4 weighs 5.32 grams less than oyster #3

How much does oyster #4 weigh?

   a. 18.06 grams
   b. 19.43 grams
   c. 18.6 grams
   d. 17.85 grams

Scan the QR code or click here to view the video.

Challenge #4

1. Solve each word problem.
2. Record answers on your brochure.
3. Check your answers in the Mermaid Decoder.
4. Add the doubloons to the wallet.
5. Scan the QR code on the next page.
6. Return the wallet and escape the seal.

1. The mermaid has a treasure chest full of gold doubloons. The doubloons each weigh 6.76 grams. How much do 5 gold doubloons weigh?

   a. 33.8 grams
   b. 34.42 grams
   c. 32.6 grams
   d. 33.08 grams

2. When doubloons were in use, each doubloon was worth about $4.12 in the currency of the day (Spanish dollars). How much would 6 doubloons be worth?

   a. $24.072
   b. $24.72
   c. $2.472
   d. $247.20

3. There are also silver coins in the treasure called escudos. There are 8 escudos, and the weight of all the escudos together is 40.64 grams. What is the weight of one escudo?

   a. 50.8 grams
   b. .058 grams
   c. 5.8 grams
   d. 5.08 grams

3 Versions

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

Learn more!

Challenge #1

1. Solve each division problem.
2. Record answers on your brochure.
3. Check your answers in the Mermaid Decoder.
4. Add the seashells to the wallet.
5. Scan the QR code on the next page.
6. Move on to challenge #2.

1. The mermaid uses 360 seashells to make an array on the beach. The array had 15 rows. Which equation could you use to determine how many seashells were in each row of the array?

   a. $360 \overline{)15}$

   b. 15×360

   c. $15 \overline{)360}$

   d. $15 \div 360$

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1. **Two-Digit Division**

The mermaid uses 360 seashells to make an array on the beach. The array had 15 rows. Which equation could you use to determine how many seashells were in each row of the array? ◯

   a. $360 \overline{)15}$

   b. 15×360

   c. $15 \overline{)360}$

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1 The mermaid uses 360 seashells to make an array on the beach. The array had 15 rows. Which equation could you use to determine how many seashells were in each row of the array?

$360 \overline{)15}$ 15×360 $15 \overline{)360}$ $15 \div 360$

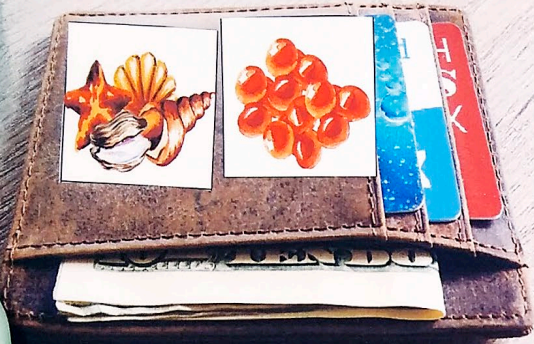|	PDF 📄	Google Slides 💻	Webscape™ 🚀
Format Type	Printable	Digital	Digital
Device	N/A	Any Device	Any Device
Required Prep	Print & Go	Copy & Share	Zero Prep
Student Answers	Printable Answer Pamphlet	Google Sheets Decoder Tool	Integrated Challenge Hub
Self Correcting	Includes Answer Key	Self Correcting	Self Correcting
Custom Videos	QR Codes	Embedded You Tube	Embedded
Audio Readings	N/A	No Audio Readings	Contains Audio Readings
Navigation	N/A	Student Directed	Automatically Advancing
Extras	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!

The Fisherman's Wallet

Mermaid Decoder

Use the following codes for each challenge to solve the clues and move to the next challenge

	question 1	question 2	question 3	question 4	question 5	question 6
Challenge 1	a = First I b = By c = I d = We	a = looked b = searching c = hunted d = found	a = under some b = along c = near d = some	a = rocks b = the rocks c = the edge d = in front	a = but then b = by the c = of a d = of the	a = in the sand. b = reef. c = big cliff. d = waves.
Challenge 2	a = I searched b = First I c = I looked d = The mermaid	a = in the b = looked in the c = where d = had	a = deepest part b = reef c = the shipwreck d = some	a = where all b = but they c = and all the d = from	a = the sharks b = were all c = fish d = the fish	a = hunted. b = at the shore. c = were. d = in her house.
Challenge 3	a = I found b = I c = First I d = By	a = some b = hunted c = looked d = searching	a = near b = in c = under d = inside	a = a lot of b = holes c = some d = seashells	a = rocks b = in the c = oyster d = with animals	a = at the shore. b = reef. c = shells. d = in them.
Challenge 4	a = I b = We c = I hunted d = The mermaid	a = found b = searched c = near d = had some of	a = some while b = under c = the four d = the	a = waiting b = seashells c = shipwrecks d = coins	a = for b = and c = for 3 d = in	a = the mermaid. b = big rocks. c = hours. d = her house.

MERMAID ESCAPE ROOM RECORDING BROCHURE

Record your challenge answers along your journey.

CHALLENGE 3

	Answer	Code
1.	b	I
2.	c	looked
3.	d	inside
4.		
5.		
6.		

How did you find the pearl?

Mermaid Escape Room

Scan the QR code or click here to view the video.

Jhon W.
(Name)

has successfully completed the challenges and escaped the sea.
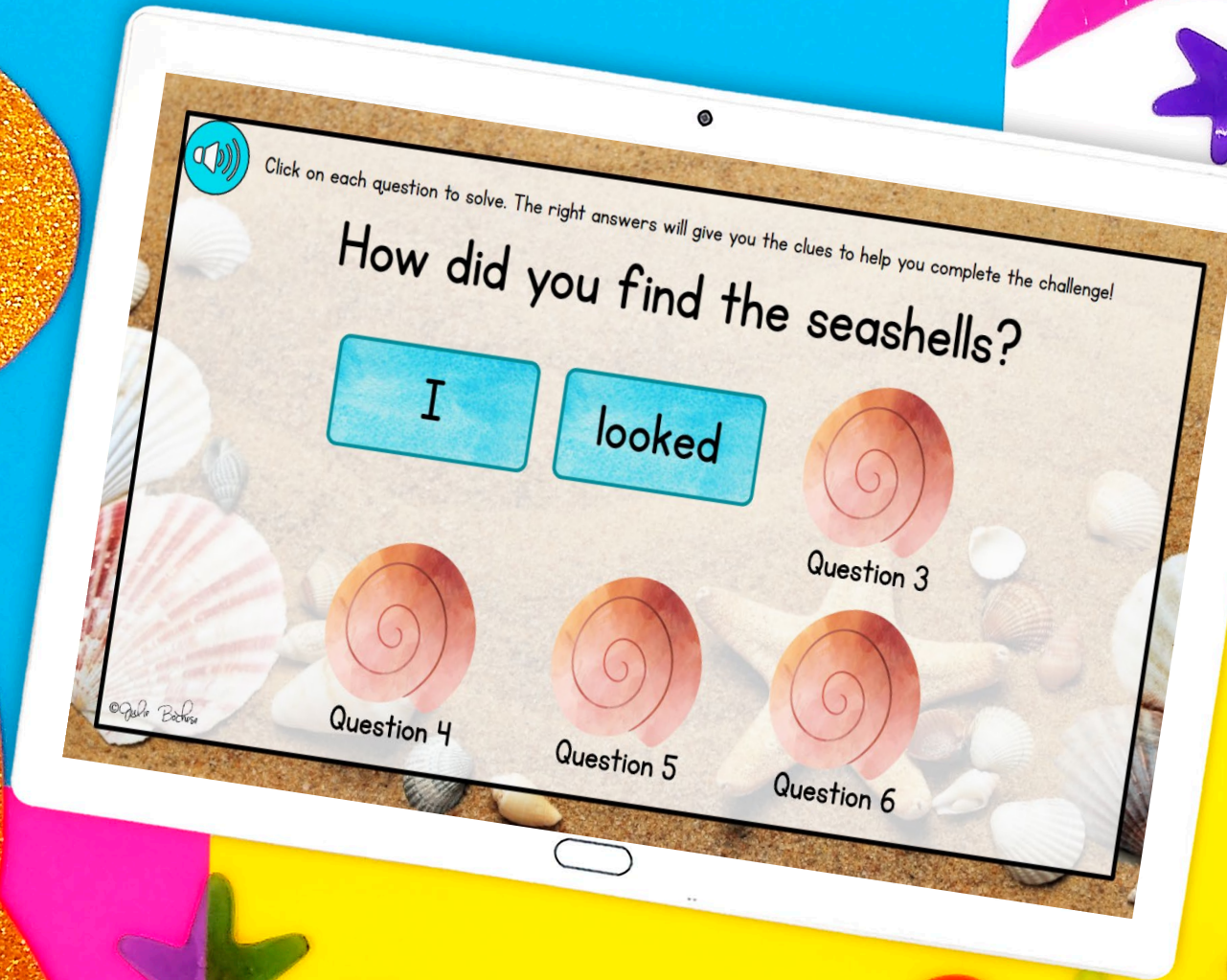
23/03
(Date)

The Fisherman

Oops!

You left your backpack at the beach and had to go back to get it.

NO HELPING YOUR TEAM FOR 3 MINUTES!

Print

- OOPS! Cards for differentiation

Learn more!

Webscape ™

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

Learn more!

Click on each question to solve. The right answers will give you the clues to help you complete the challenge!

How did you find the seashells?

I

looked

Question 3

Question 4

Question 5

Question 6

Webscape ™

Drag the seashells into the fisherman's wallet.

- 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!

Multiplication and Division Word Problems

1.

The mermaid has a treasure chest full of gold doubloons. The doubloons each weigh 6.76 grams. How much do 5 gold doubloons weigh? ◯

a. 33.8 grams

b. 34.42 grams

c. 32.6 grams

d. 33.08 grams

Google Slides

- One problem per slide

- Students drag to circle their answers

Learn more!

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!
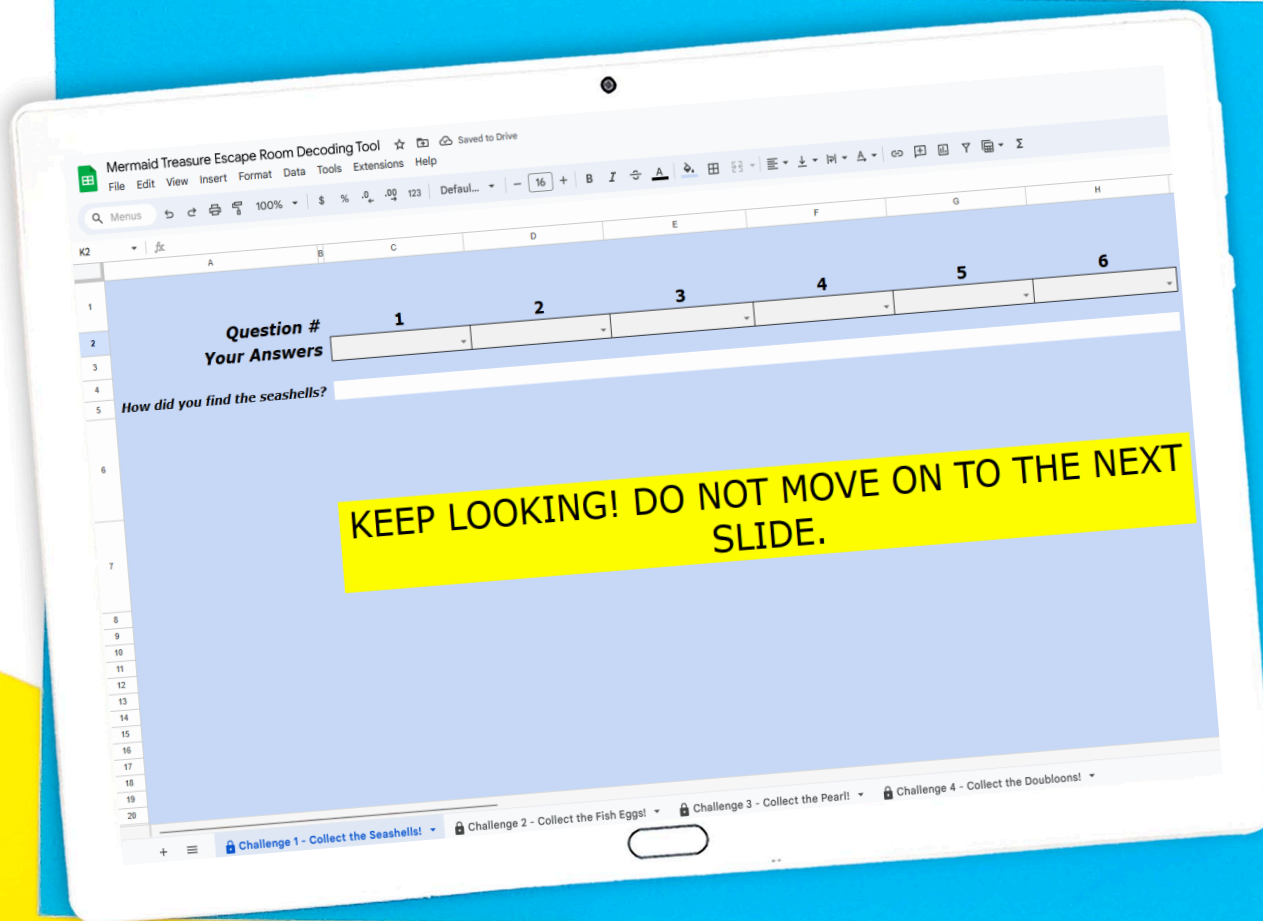
Looking for More?

ESCAPE ROOM BUNDLE
Math Skills
5th Grade
Print and Digital

Graphing Points
Baking Escape Room
5th Grade
Print and Digital

Dear Student,
We love baked goods of all kinds. The boss the best treats you can. Prove you can ma 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 iter the boss.

Sincerely,
The Cookie Criminal

MATH: Classify Shapes
Catch the Bandit Escape Room
5th Grade
Print and Digital

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

You must follow the bandit to catch him and get your ma

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 ca

Sincerely,
Friendly Neighborhood Crime Watchers