

MULTIPLICATION & DIVISION

4th Grade

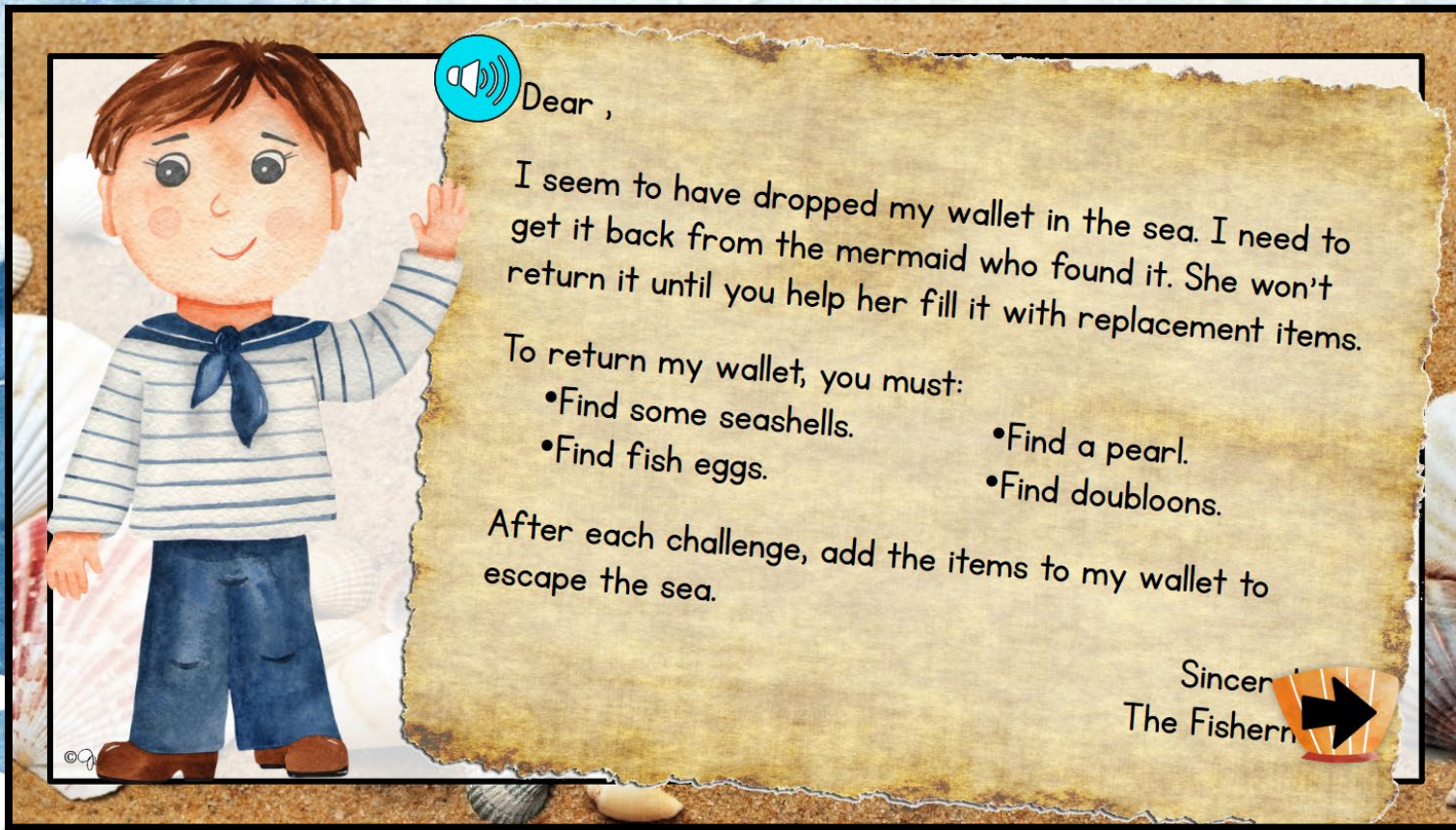
MERMAID TREASURE ESCAPE ROOM



PRINTABLE • GOOGLE • WEBSCAPE™

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!



Challenge #1



1. Solve each multiplication 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 in the corner of this page.
6. Move on to the challenge #2.

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



1. The mermaid made an array of seashells on the shore that had 5 rows of 18 shells across. Which equation represents the shells in the array?

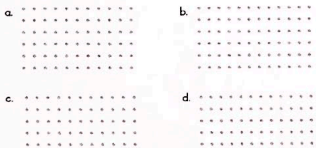
- a. $5 \times 5 = 25$
- b. $18 + 18 + 18 + 18 + 18 = 72$
- c. $5 \times 18 = 90$
- d. $18 \times 18 = 324$

3. You found pieces of sea glass on the shore and arranged them into an array of 11 pieces across and 8 pieces down. Which equation represents the amount of sea glass you found?

- a. $8 + 11 = 88$
- b. $8 \times 11 = 88$
- c. $8 \times 8 = 64$
- d. $11 \times 11 = 121$

2. A seagull flew down and took two shells from every row. Find the array that represents the

4. The mermaid took away 3 rows of sea glass. Find the array that represents the array of sea glass now.



6. Nineteen pails have 7 crabs each. How many crabs are there in all pails?

- a. 153
- b. 143
- c. 123
- d. 133

5. There are 32 pails on the beach that have 5 crabs each in them. How many crabs are there in all?

- a. 150
- b. 154
- c. 158
- d. 160

Challenge #2



1. Solve each multiplication 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 in the corner of this page.
6. Move on to the challenge #3.

1. The mermaid drew an area model in the sand to show how many jewels she used to make 9 bracelets. She used 36 jewels on each bracelet. Which equation explains the area model she drew?

	30	6
9	270	54

- a. $30 \times 6 = 180$
- b. $36 \times 9 = 270$
- c. $36 \times 9 = 324$
- d. $9 \times 30 = 270$

2. The mermaid drew an area model to show how many jewels she used to make 23 necklaces. She used 76 jewels on each necklace. Which equation explains the area model she drew?

	70	6
20	1,400	120
3	210	18

- a. $76 \times 23 = 1,748$
- b. $76 \times 23 = 1,848$
- c. $76 \times 23 = 1,538$
- d. $76 \times 23 = 1,628$

3. On Monday, the mermaid collected 45 red fish eggs and 4 times as many blue eggs. She started an area model to see how many eggs she found. Help her finish the area model by finding the missing numbers.

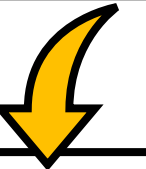
	40	5
4	?	?

- a. $150 \div 20$
- b. $160 \div 20$
- c. $160 \div 9$
- d. $160 \div 25$

4 Mathematics Challenges

- Challenges focused on Multiplication & Division 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!



Challenge #4



- Solve each word problem.
- Record answers on your brochure.
- Check your answers in the Mermaid Decoder.
- Add the doubloons to the wallet.
- Scan the QR code at the bottom of the next page.
- Return the wallet and escape the seal.

1. The fisherman found 84 doubloons on 5 consecutive days. He used the strategy of doubling and halving to quickly determine how many doubloons he found in total. Find the expression he used.

- 42×10
- 84×10
- 42×5
- 168×5

2. The fisherman realized he had 1,260 doubloons in a galley drawer. He decided to pile them in groups of 10 and knew he could easily determine the number of doubloons in each pile. What was he thinking?

- He could subtract 126 from 1,260 ten times.
- He knew $126 \times 10 = 1,260$.
- He could add 126 plus 126 until he got to 1,260.
- He could divide 1,260 by 10 using long division.

3. The mermaid swam underwater for 270 seconds before coming up for air. She did this 20 times in a row. To find out how many seconds she was underwater, she used the doubling and halving strategy. What does her strategy look like?

- $20 \times 270 = 5,400$ seconds
- $40 \times 270 = 10,800$ seconds
- $135 \times 20 = 135 \times 20 = 5,400$ seconds
- $540 \times 10 = 5,400$ seconds

Challenge #3



- Solve each word problem.
- Record answers on your brochure.
- Check your answers in the Mermaid Decoder.
- Add the pearls to the wallet.
- Scan the QR code in the corner of this page.
- Move on to the challenge #4.

1. The mermaid has a treasure chest that she fills with pearls. She put 94 pearls in each day of this week. How many pearls did she put in the treasure chest this week? Find the equation that shows the answer.

- $94 \times 5 = 470$
- $94 \times 7 = 658$
- $94 \times 8 = 752$
- $94 \times 1 = 94$

2. The mermaid gave away 390 pearls to her 6 friends. She divided them evenly. How many pearls did each friend get?

- 50
- 55
- 65
- 75

3. A seal went swimming to catch shrimp for her 7 babies. She caught 88 shrimp. How many whole shrimp can each baby seal eat?

- 9
- 10
- 11
- 12

4. The shark found 4,380 fish eggs and shared them with her 5 babies. How many fish eggs did each baby shark get?

- 876
- 877
- 786
- 878

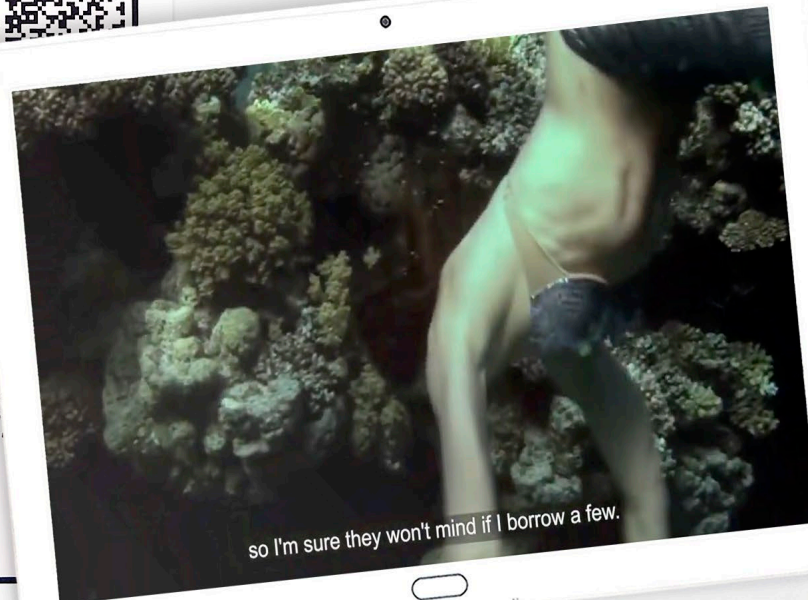
5. The fisherman found 84 doubloons on 5 consecutive days. He used the strategy of doubling and halving to quickly determine how many doubloons he found in total. Find the expression he used.

- 1
- 2
- 3
- 4

6. The fisherman collected 28 shells each and August. How many shells did he collect in all?

- 1,396
- 1,496
- 1,596
- 1,696

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



Challenge #1



1. Solve each multiplication problem.
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6. Move on to the challenge #2.

1. The mermaid made an array of seashells on the shore that had 5 rows of 18 shells across. Which equation represents the shells in the array?

- a. $5 \times 5 = 25$
- b. $18 + 18 + 18 + 18 + 18 = 72$
- c. $5 \times 18 = 90$
- d. $18 \times 18 = 324$

2. A seagull flew down and took two shells from every row. Find the array that the mermaid's shells now.

- a.
- b.
- c.

1.

Whole Number Multiplication

The mermaid made an array of seashells on the shore that had 5 rows of 18 shells across. Which equation represents the shells in the array? ☐

- a. $5 \times 5 = 25$
- b. $18 + 18 + 18 + 18 + 18 = 72$



The mermaid made an array of seashells on the shore that had 5 rows of 18 shells across. Which equation represents the shells in the array?

$$5 \times 5 = 25$$

$$18 + 18 + 18 + 18 + 18 = 72$$

$$5 \times 18 = 90$$




$$18 \times 18 = 324$$

3 Versions

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

Learn more!



	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

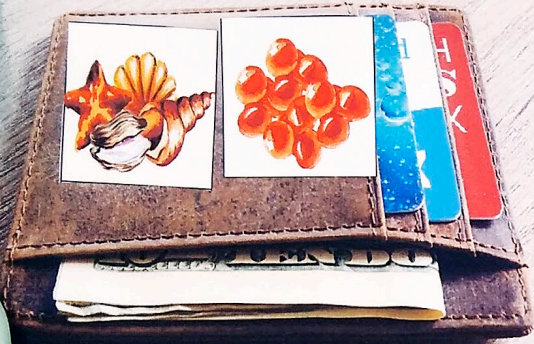
3 Versions

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

Learn more!



The Fisherman's Wallet



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

Mermaid Decoder

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

Challenge 1

question 1	question 2	question 3	question 4	question 5	question 6
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

question 1	question 2	question 3	question 4	question 5	question 6
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

question 1	question 2	question 3	question 4	question 5	question 6
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

question 1	question 2	question 3	question 4	question 5	question 6
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?

Learn more!



Print

- OOPS! Cards for differentiation

Learn more!



Mermaid Escape Room



Jhon W.

(Name)

has successfully completed the challenges and escaped the sea.

23 / 03

(Date)

The fisherman



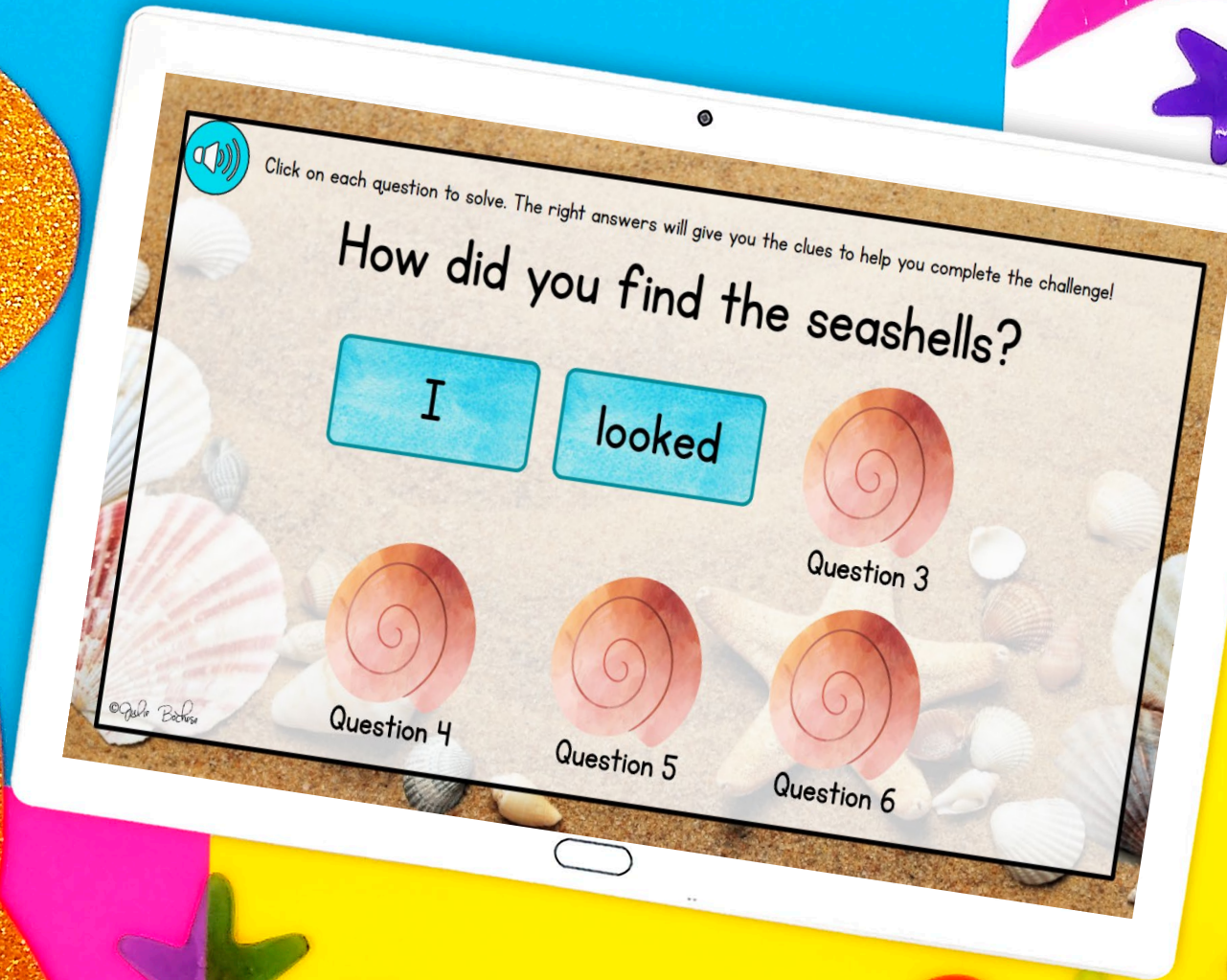
Oops!

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



NO HELPING YOUR TEAM FOR 3 MINUTES!

Webscape TM



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

Learn more!



Webscape TM

- 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

1.

Whole Number Multiplication

The mermaid drew an area model in the sand to show how many jewels she used to make 9 bracelets. She used 36 jewels on each bracelet. Which equation explains the area model she drew? ☐

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- a. $30 \times 6 = 180$
c. $36 \times 9 = 324$

- b. $36 \times 9 = 270$
d. $9 \times 30 = 270$

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

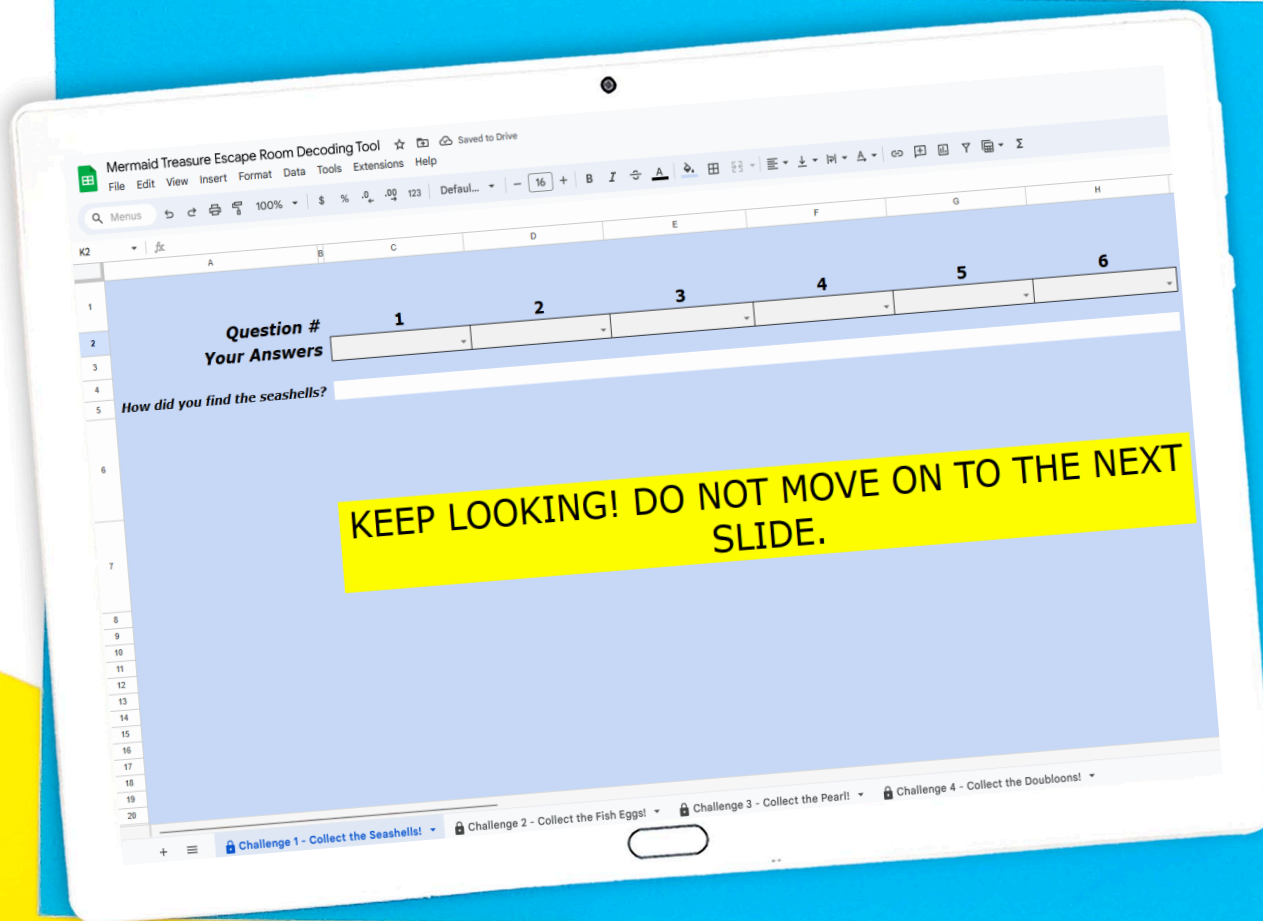
Learn more!



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

4th Grade



The image shows a girl with brown hair, a pink bow, and a purple dress holding a large silver key. She is standing next to a tablet that displays a menu of 'Math Escape Rooms'. The menu includes options for 2nd, 3rd, 4th, and 5th grades. The 4th grade options are 'Math Fractions & Mixed Numbers', 'Math Fractions & Mixed Numbers', and 'Math Fractions & Mixed Numbers'. The 5th grade options are 'Math Fractions & Mixed Numbers' and 'Math Fractions & Mixed Numbers'. The tablet also shows 'Telling Time: Time Machine Escape Room' and 'Engage, Explore, Explain: Tell the Story'. A green banner at the bottom left says 'Print and Digital'.

Math Escape Rooms

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

Math Fractions & Mixed Numbers

Math Fractions & Mixed Numbers

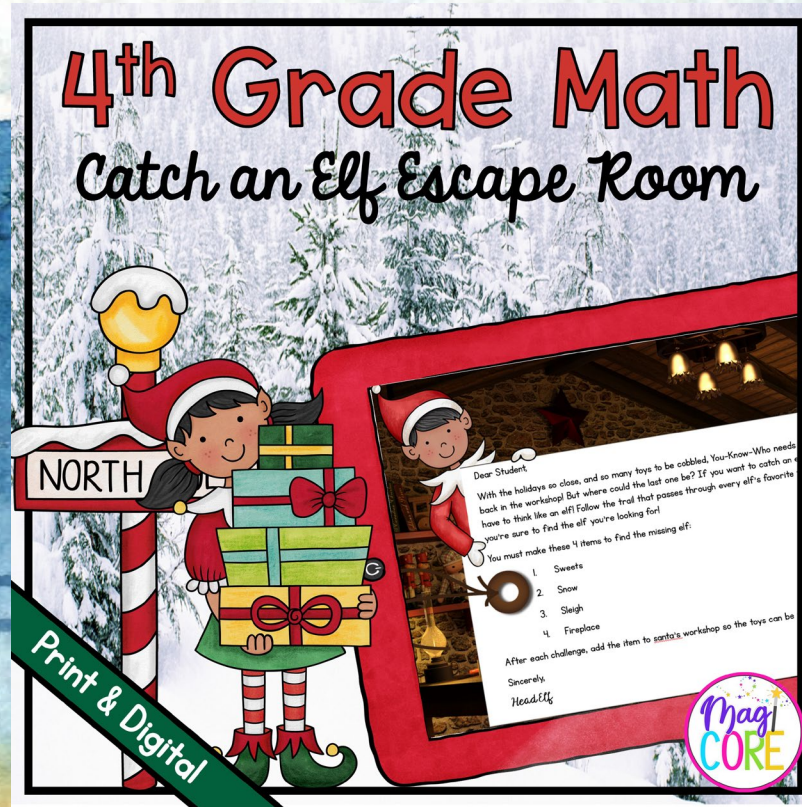
Math Fractions & Mixed Numbers

Telling Time: Time Machine Escape Room

Engage, Explore, Explain: Tell the Story

Print and Digital

4th Grade Math Catch an Elf Escape Room



The image shows an elf in a red suit and hat holding a stack of wrapped gifts. He is standing next to a tablet that displays a math escape room. The tablet shows a letter from Santa and a list of items to find. The items are: 1. Sweets, 2. Snow, 3. Sleigh, 4. Fireplace. The letter from Santa says: 'Dear Student, With the holidays so close, and so many toys to be cobbled, You-Know-Who needs back in the workshop! But where could the last one be? If you want to catch on to the elf, you have to think like an elf! Follow the trail that passes through every elf's favorite place to think like an elf! You're sure to find the elf you're looking for! You must make these 4 items to find the missing elf: 1. Sweets, 2. Snow, 3. Sleigh, 4. Fireplace. After each challenge, add the item to Santa's workshop so the toys can be made. Sincerely, Head Elf'. A green banner at the bottom left says 'Print & Digital'. The MagiCORE logo is in the bottom right corner.

4th Grade Math

Catch an Elf Escape Room

NORTH

Dear Student,

With the holidays so close, and so many toys to be cobbled, You-Know-Who needs back in the workshop! But where could the last one be? If you want to catch on to the elf, you have to think like an elf! Follow the trail that passes through every elf's favorite place to think like an elf! You're sure to find the elf you're looking for! You must make these 4 items to find the missing elf:

1. Sweets
2. Snow
3. Sleigh
4. Fireplace

After each challenge, add the item to Santa's workshop so the toys can be made.

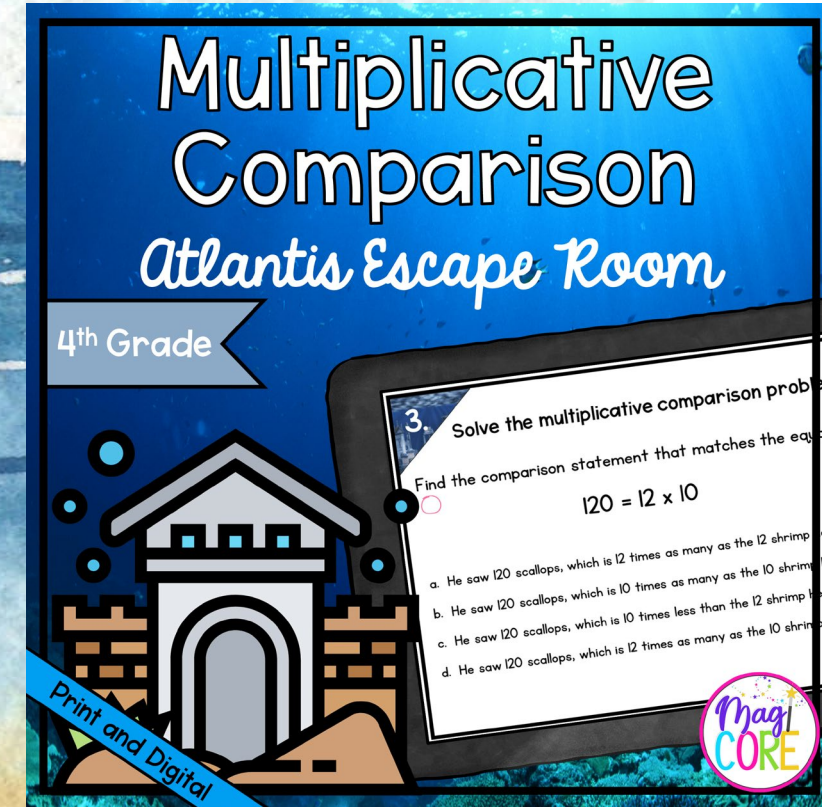
Sincerely,
Head Elf

Print & Digital

MagiCORE

Multiplicative Comparison Atlantis Escape Room

4th Grade



The image shows a tablet displaying a math escape room. The tablet shows a problem: '3. Solve the multiplicative comparison problem. Find the comparison statement that matches the equation: 120 = 12 x 10'. The options are: a. He saw 120 scallops, which is 12 times as many as the 12 shrimp. b. He saw 120 scallops, which is 10 times as many as the 10 shrimp. c. He saw 120 scallops, which is 10 times less than the 12 shrimp. d. He saw 120 scallops, which is 12 times as many as the 10 shrimp. A blue banner at the bottom left says 'Print and Digital'. The MagiCORE logo is in the bottom right corner.

Multiplicative Comparison

Atlantis Escape Room

4th Grade

3. Solve the multiplicative comparison problem. Find the comparison statement that matches the equation: $120 = 12 \times 10$

- a. He saw 120 scallops, which is 12 times as many as the 12 shrimp.
- b. He saw 120 scallops, which is 10 times as many as the 10 shrimp.
- c. He saw 120 scallops, which is 10 times less than the 12 shrimp.
- d. He saw 120 scallops, which is 12 times as many as the 10 shrimp.

Print and Digital

MagiCORE