

5th Grade

PLACE VALUE



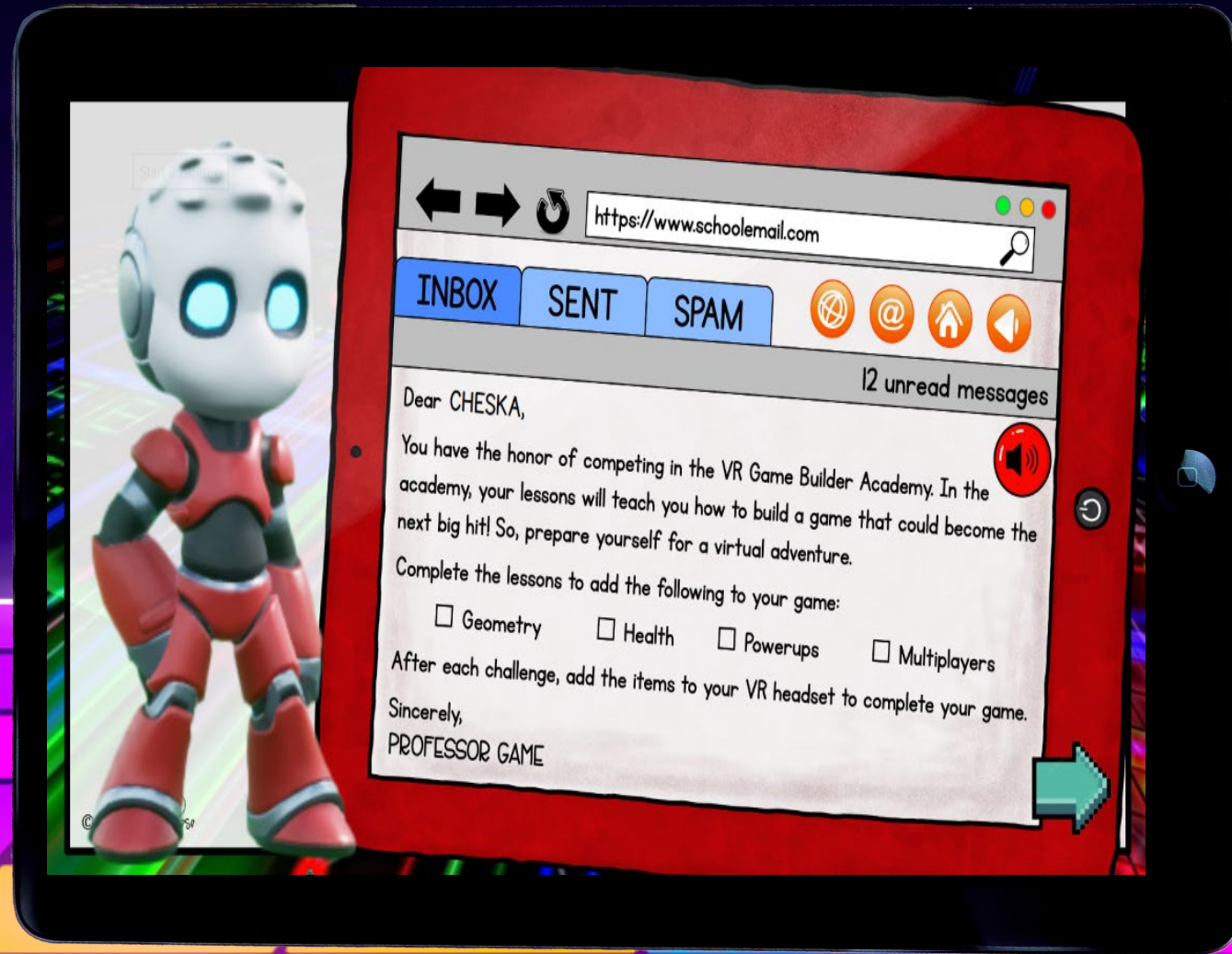
VIDEO GAME ESCAPE ROOM

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Build a game!

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



Learn more!



4 Mathematics Challenges

Challenge #1



1. Solve the place value problems.
2. Record answers on your brochure.
3. Check your answers in the Video Game Decoder.
4. Add the platform to the headset.
5. Scan the QR code in the corner of the next page.
6. Move on to challenge #2.

1. Your classmate asked you to explain the value of two digits in the number below. What is your answer?

9, 565

- a. The value of the circled 5 is 10 times greater than the underlined 5.
- b. The value of the circled 5 is 1,000 times greater than the underlined 5.
- c. The value of the circled 5 is 100 times less than the underlined 5.
- d. The value of the circled 5 is 100 times greater than the underlined 5.

2. Your professor asked you to explain the value of the underlined digit. What is your answer?

77,613

- a. It is 10 times greater than the 7 in the thousands place.
- b. It is 7 times one thousand.
- c. It is 7 times one hundred.
- d. It is 10 times greater than one thousand.

3. Look at the number. Choose the option that completes the statement below it.

338,902

The value of the underlined 3 is ____ the value of

- a. 10 times
- b. 100 times
- c. $\frac{1}{10}$
- d. $\frac{1}{100}$

4. What is the value of the exponent shown below?

10^4

- a. 10,000
- b. 100,000
- c. 1,000,000
- d. 1,000

5. Find the exponential form and the value of the multiplication equation below.

$10 \times 10 \times 10 \times 10 \times 10 \times 10$

- a. 10^6 and 10,000,000
- b. 10^6 and 10,000
- c. 10^6 and 100,000
- d. 10^6 and 1,000,000

6. Your classmate wants to solve the problem below but doesn't know how. Which of the following explanations will you give your classmate to explain how to solve the problem?

4.325×10^2

- a. Since you are multiplying the decimal by 10, you shift the digits to the left 1 place.
- b. Since you are multiplying the decimal by 10^2 , you look at the exponent. Because the exponent is a 2, you shift the digits to the left 2 places.
- c. Since you are multiplying the decimal by 10^2 , you look at the exponent. Because the exponent is a 2, you shift the digits to the right 2 places.
- d. Since you are multiplying by a power of 10, you shift the digits 10 places to the left.

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



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



4 Mathematics Challenges

Challenge #3



1. Solve each number comparison problem.
2. Record answers on your brochure.
3. Check your answers in the Video Game Decoder.
4. Add the star to the headset.
5. Scan the QR code in the corner of the next page.
6. Move on to challenge #4.

1. Player One achieved a high score of 345,764 on level one of your video game. Player Two's high score was 345,757. Complete the number comparison comparing the two high scores by choosing the missing symbol.

$$345.764 \text{ ? } 345.757$$

- a. <
- b. >
- c. =
- d. x

2. Player One finished level two in 7652 hours. It took Player Two 7654 hours to complete the level. Complete the number comparison comparing the two times by choosing the missing symbol.

$$7.652 \text{ ? } 7.654$$

- a. <
- b. >
- c. =
- d. x

3. Level three has a difficulty rating of 5678. Level four has a difficulty rating of 5903. Complete the number comparison comparing the two difficulty levels by choosing the missing symbol.

$$5.678 \text{ ? } 5.903$$

- a. <
- b. >
- c. =
- d. x

4. Which of the following numbers is greater than 34560 but less than 34730?

- a. 34557
- b. 34625
- c. 34752
- d. 34534

5. I'm thinking of a number that is greater than 3405 but less than 3436. The digit in the hundredths place is odd and the sum of the digits in the tenths and thousandths place is 6. What is the number?

a. 3413

6. The table below shows the high scores for level 1 high scores in order from least to greatest.

Player	1	2	3
High Score	62435	61980	62461

- a. Player 1, Player 4, Player 3, Player 2
- b. Player 2, Player 1, Player 4, Player 3
- c. Player 3, Player 4, Player 1, Player 2
- d. Player 2, Player 4, Player 1, Player 3

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



- Themed videos integrated throughout the Escape Room to keep kids engaged.

- Students work in groups, partners, or independently.

Learn more!



Challenge #1

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Challenge

Understanding Place Value

Your classmate asked you to explain the value of two digits in the number below. What is your answer?

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©John Becker

3 Versions

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

Learn more!



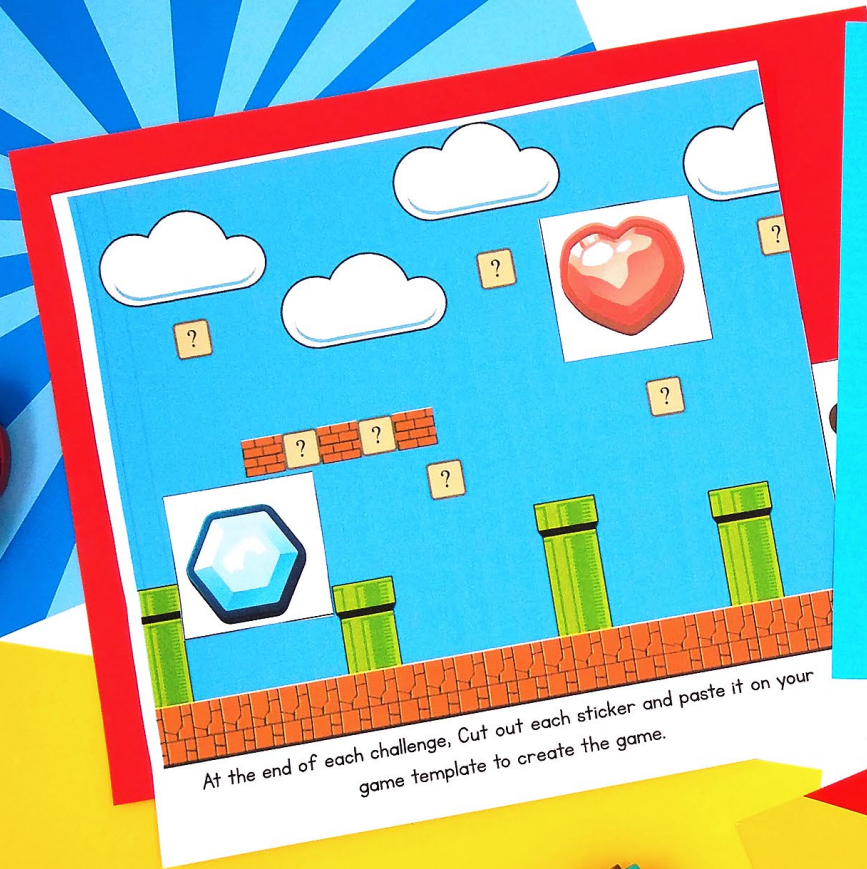
	PDF		

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Print



At the end of each challenge, Cut out each sticker and paste it on your game template to create the game.

Video Game 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
a = First I b = By making c = By d = I	a = created b = the floor c = creating d = made	a = one b = and then c = an d = a hole	a = octagon b = adding c = elevated d = in the floor	a = as the base b = platforms to c = level d = to
question 7	question 8	question 9	question 10	question 11
a = added more b = without c = on d = to	a = to get b = falling c = and a d = go	a = a b = from c = step from d = from	a = variety b = level c = point A	a = of b = to

VIDEO GAME RECORDING BROCHURE

Record your challenge answers along your journey.

CHALLENGE 3

	Answer	Answer
1.	b	7. b
2.	a	8. c
3.	a	9.
4.		10.
5.		11.
6.		12.

How did you add power-ups?

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

Learn more!

Print

Video Game Designer

Louisa Tyler

(name)

has successfully completed the challenges and created a new game.

28 / 04

(date)



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



Ooops!

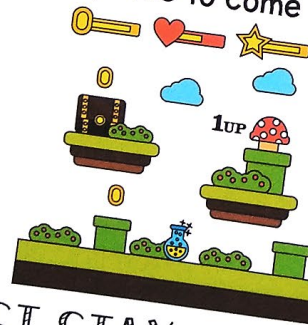
f the platform. You must use your health points to come back.



YOU MUST STAY QUIET FOR 5 MINUTES. NO SPEAKING!

Ooops!

You fell off the platform. You must use your health points to come back.



YOU MUST STAY QUIET FOR 5 MINUTES. NO SPEAKING!

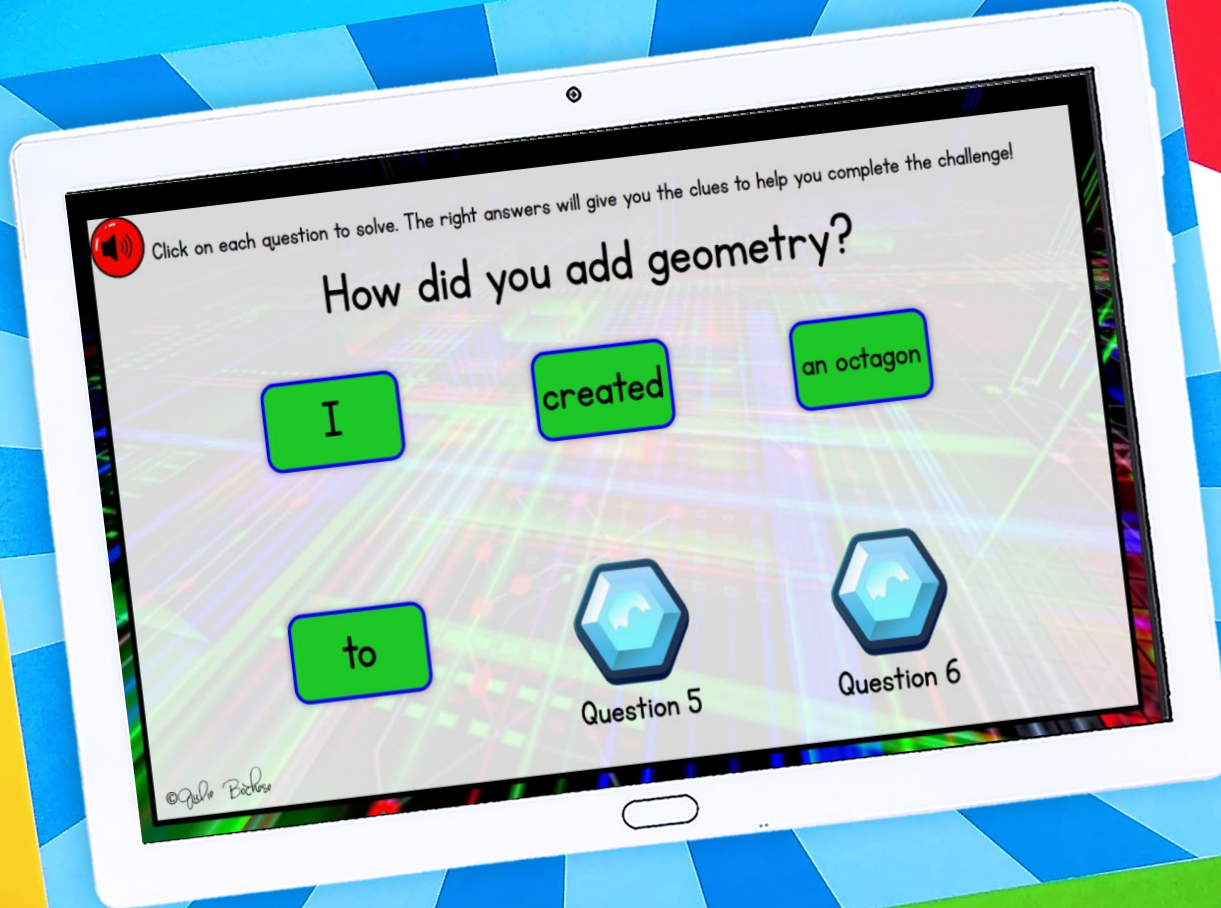
Learn more!



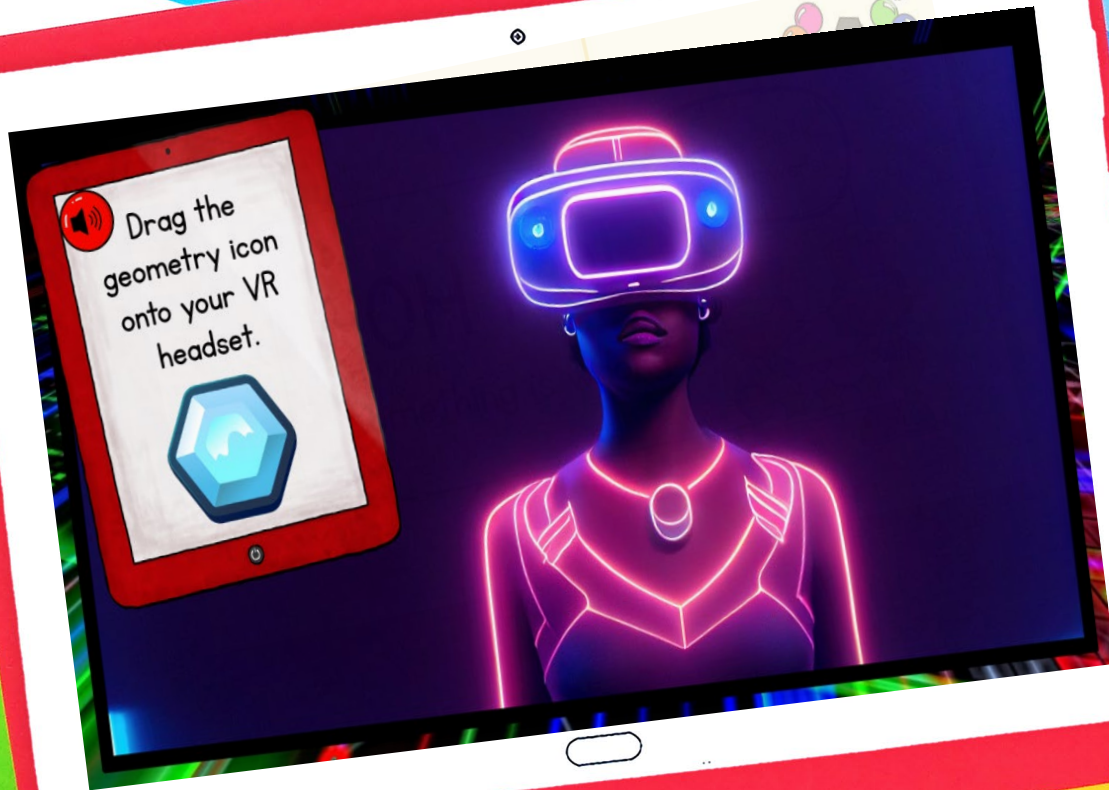
Webscape™

- 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!



Webscape™



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

Learn more!



Google Slides

Challenge

Understanding Place Value

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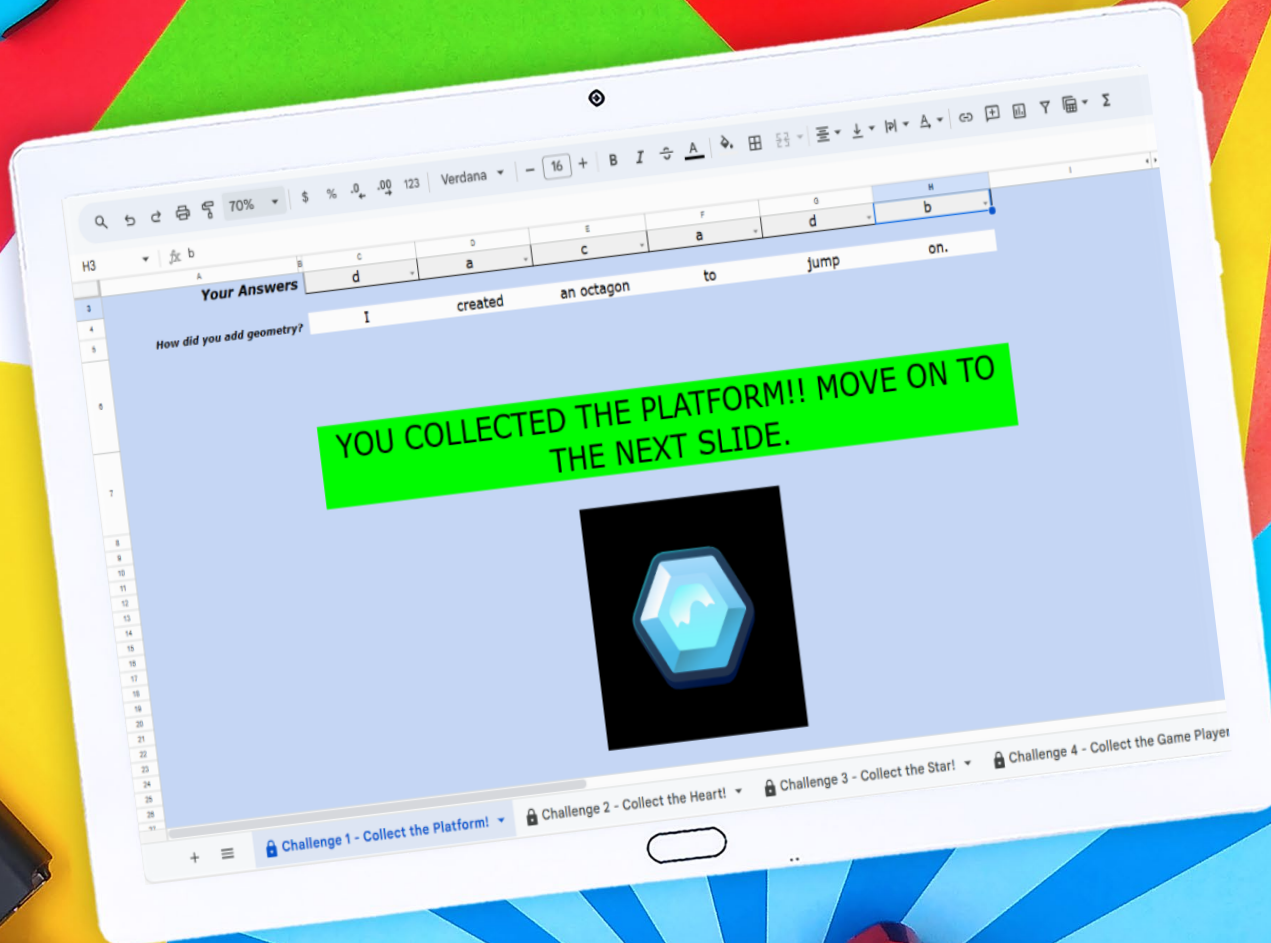
- One problems per slide
- Students drag to highlight their answers

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?



5th Grade

MATH SKILLS ESCAPE ROOMS BUNDLE

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The bundle includes 18 individual escape rooms, each with a unique theme and math focus. The thumbnails are arranged in a 3x6 grid. The top row includes: Subtraction (Candy Factory), Geometry (Candy Factory), Graphing Points (Baking), Fractions (Baking), 5th Grade Math Review (School), and Math Skills Review (School). The middle row includes: Multiplication & Division (Medmaid), Place Value (Video Game), Fractions (Time Machine), and Word Problems (Sherlock Holmes). The bottom row includes: Addition & Subtraction (Candy Factory), Geometry (Candy Factory), Graphing Points (Baking), Fractions (Baking), 5th Grade Math Review (School), and Math Skills Review (School).



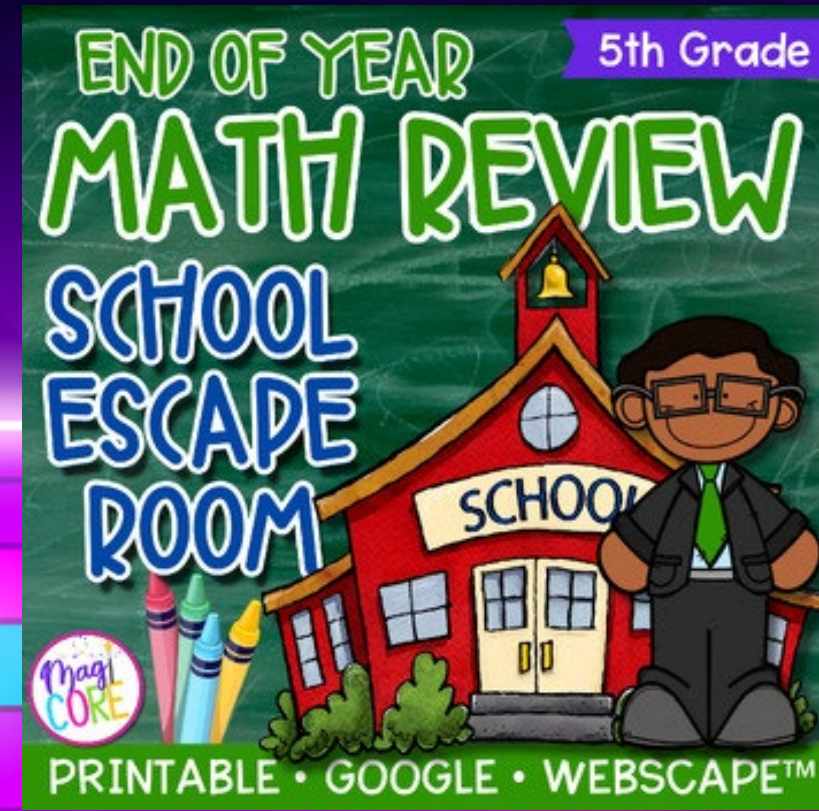
5th Grade

MULTIPLYING & DIVIDING FRACTIONS

HAUNTED TRAIN ESCAPE ROOM

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The cover features a dark, atmospheric scene of a steam train at night with a ghostly figure floating above it. The title 'MULTIPLYING & DIVIDING FRACTIONS' is written in a large, yellow, curved font. Below it, 'HAUNTED TRAIN ESCAPE ROOM' is written in a bold, yellow font. The 'Magi CORE' logo is in the bottom left corner.



5th Grade

END OF YEAR MATH REVIEW

SCHOOL ESCAPE ROOM

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The cover features a bright, colorful illustration of a red schoolhouse with a bell tower and a teacher standing in front. The title 'END OF YEAR MATH REVIEW' is written in large, green, outlined letters. Below it, 'SCHOOL ESCAPE ROOM' is written in large, blue, outlined letters. The 'Magi CORE' logo is in the bottom left corner.