



4th Grade

PLACE VALUE

MULTI-DIGIT WHOLE NUMBERS



VIDEO GAME ESCAPE ROOM

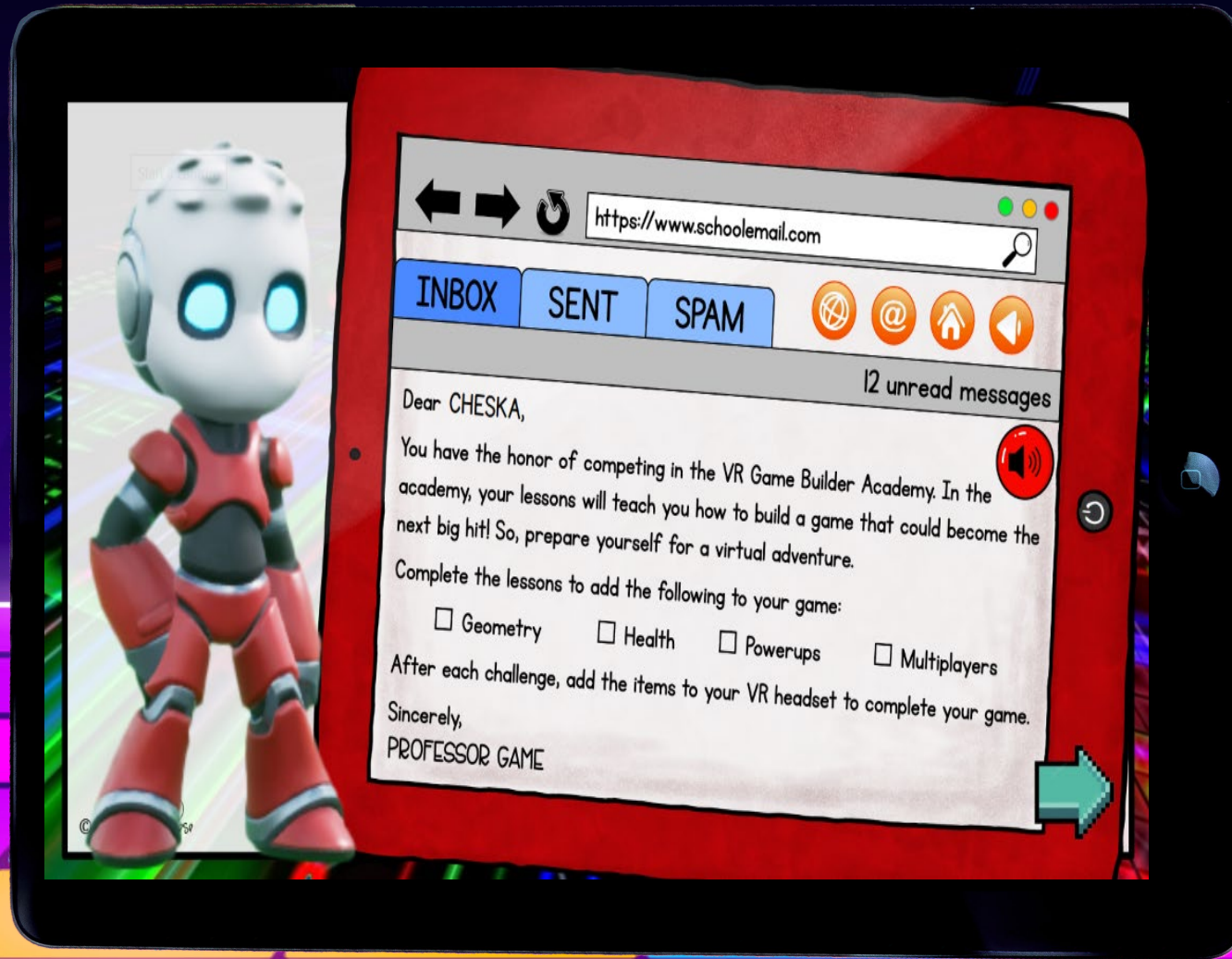
PRINTABLE • GOOGLE • WEBSCAPE™



Build a game!

Students won't realize they are practicing Place Value Multi-digit Whole Numbers!

They will be immersed in the storytelling and our original videos as they complete math challenges.



Learn more!



4 Mathematics Challenges

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

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 page.
6. Move on to challenge #2.

1 Your academy partner asked you to explain the value of the underlined number. What is your answer?

9,563

- a. The value is 5 times ten.
- b. The value is 5 times one thousand.
- c. The value is 5 more than one thousand.
- d. The value is 5 times one hundred.

2 Your academy partner asked you to explain the value of the underlined number. What is your answer?

7,683

- 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 The professor wrote this number. He asked you to find the expression that is equivalent to the value of the 4 in the number below. What is your answer?

4,563

- a. $4,000 \times 10$
- b. 400×1
- c. 40×100
- d. 4×100

4 The professor wrote this number. He asked you to find the expression that is equivalent to the value of the 8 in the number below. What is your answer?

- a. 800×10
- b. $8 \times 1,000$
- c. $8,000 \times 1$
- d. 80×100

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



Challenge #2

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

1 Your academy partner must write the largest 4-digit number with the following numerals. What is his answer?

1 0 4 9

- a. 9,401
- b. 9,410
- c. 9,400
- d. 9,041

2 Your academy partner must write the largest 5-digit number with the following numerals. What is his answer?

9 5 8 3 6

- a. 98,653
- b. 96,853
- c. 89,653
- d. 98,356

3 Your professor asked you to write the smallest 6-digit number with the following numerals. What is your answer?

2 9 0 7 3 5

- a. 230,975
- b. 203,975
- c. 235,790
- d. 203,579

4 You were asked to make this statement true. What is your answer?

8 thousands + 9 hundreds + 3 ones =

- a. 893
- b. 8,903
- c. 890
- d. 8,930

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



5 You were asked to make this statement true. What is your answer?

2 ten thousands + 4 hundreds + 7 tens + 1 one =

- a. 20,471
- b. 2,471
- c. 24,071
- d. 204,071

6 You were asked to make this statement true. What is your answer?

7 hundred thousands + 7 thousands + 3 hundreds + 3 ones =

- a. 77,303
- b. 700,733
- c. 707,303
- d. 770,303

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



1. Solve each word problem.
2. Record answers on your brochure.
3. Check your answers in the Video Game Decoder.
4. Add the game player to the headset.
5. Scan the QR code in the corner of the next page.
6. Complete your game!

1. Your professor asked you to write this number in word form in your video game instructions. What is your answer?

39,048

- a. thirty thousand nine hundred forty-eight
- b. thirty-nine thousand four tens and eight ones
- c. thirty-nine hundred forty-eight
- d. thirty-nine thousand forty-eight

2. Here is another number: that you must write in word form. What is your answer?

208,530

- a. two million eight thousand five hundred thirteen
- b. twenty-eight thousand five hundred thirty
- c. two hundred eight thousand five hundred thirty
- d. two hundred eight thousand five hundred thirteen

3. Your team practiced playing their video games for a total of 85,701 minutes at the end of the week. Your professor asked you to round the number to the nearest ten thousand. What is your answer?

4. Team 2 rounded the number of minutes their team practiced to the nearest ten. Their rounded number is: 91,430 Which answer below could not be their actual number of practice minutes?

- a. 91,433
- b. 91,428
- c. 91,435
- d. 91,425

5. The professor instructed you to create between 2,500 and 3,000 lines of code in your video game. You marked your number on the number line. Find the answer that cannot be your number.



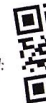
- a. 2,732
- b. 2,765
- c. 2,760
- d. 2,759

6. The professor instructed you to create between 7,450 and 7,500 commands in your video game. You marked your number on the number line. Find the answer that cannot be your number.



- a. 7,468
- b. 7,470
- c. 7,478
- d. 7,466

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



Challenge #1

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

1. Your academy partner asked you to explain the value of the underlined number. What is your answer?

9,563

- a. The value is 5 times ten.
- b. The value is 5 times one thousand.
- c. The value is 5 more than one thousand.
- d. The value is 5 times one hundred.

2. Your academy partner asked you to explain the value of the underlined number. What is your answer?

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



Challenge

Understanding Place Value

Your academy partner asked you to explain the value of the underlined number. What is your answer?

9,563

- a. The value is 5 times ten.
- b. The value is 5 times one thousand.



Your academy partner asked you to explain the value of the underlined number. What is your answer?

9,563

The value is 5 times ten.

The value is 5 times one thousand.

The value is 5 more than one thousand.

The value is 5 times one hundred.

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3 Versions

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

Learn more!



	PDF		

3 Versions

- Print
- Google Slides
- Webscape TM (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

Learn more!



Video Game 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
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

Challenge 2

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?

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

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.



Professor Game

Ooops!

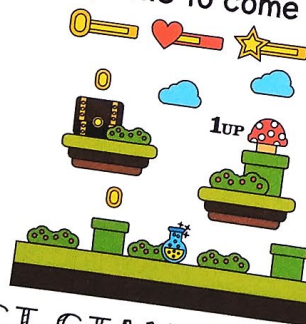
f the platform. You must use your
health points to come back.



YOU MUST STAY QUIET
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!

- Certificate of completion
- OOPS! Cards for differentiation

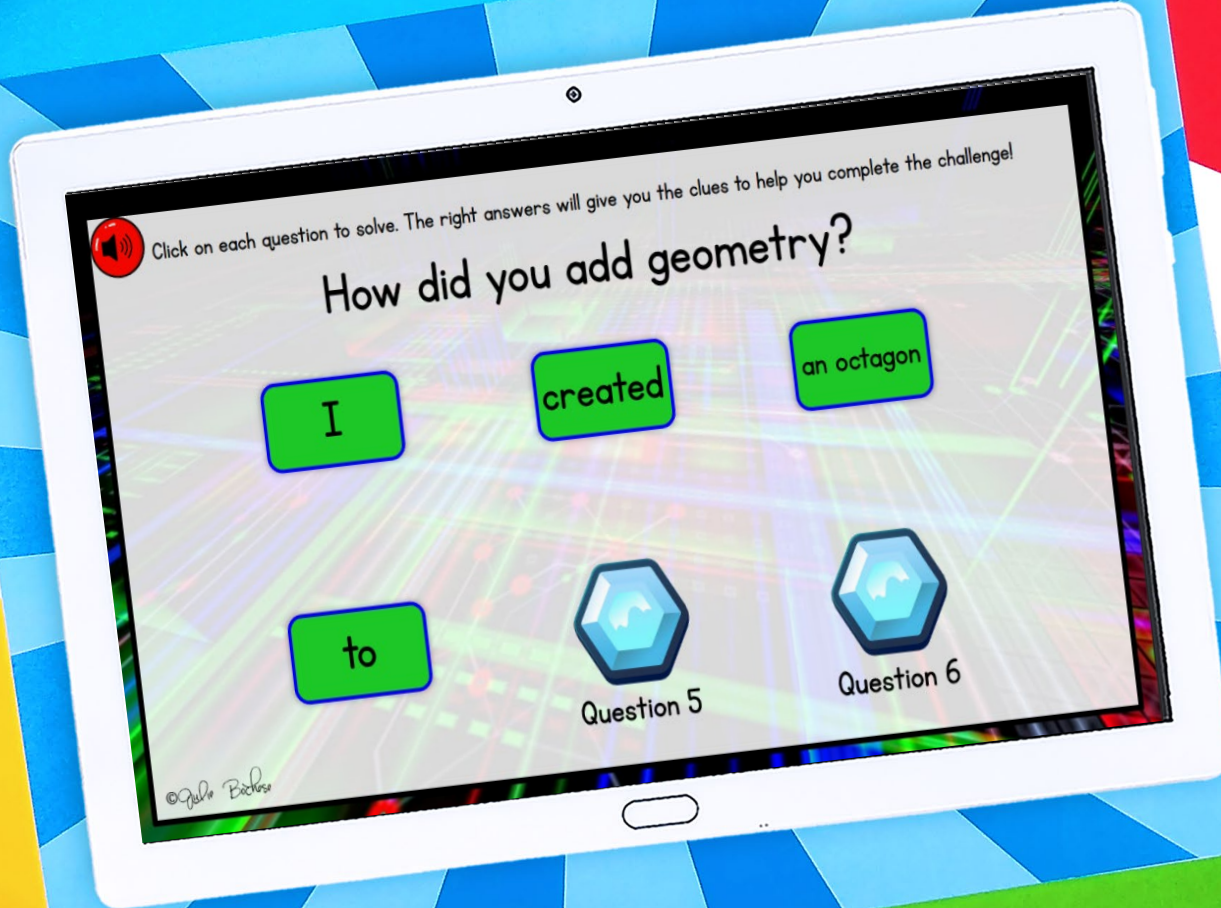
Learn more!



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!



Webscape TM

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

Learn more!



Google Slides

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

Learn more!



Understanding Place Value

Challenge

Your academy partner asked you to explain the value of the underlined number. What is your answer?

9,563

- a. The value is 5 times ten.
- b. The value is 5 times one thousand.
- c. The value is 5 more than one thousand.
- d. The value is 5 times one hundred.

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?

