



MEASURE & CALCULATE AREA

3rd Grade



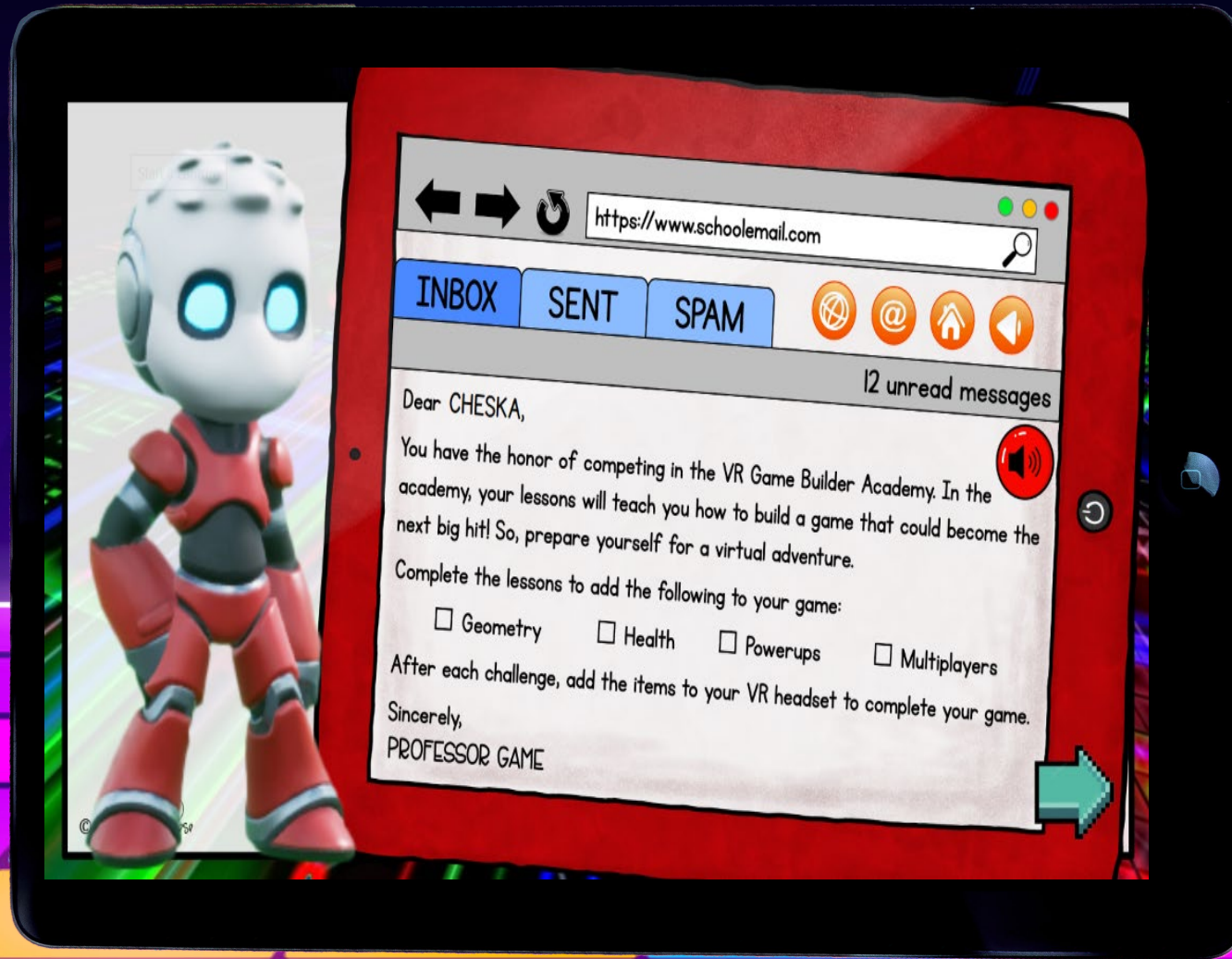
VIDEO GAME ESCAPE ROOM

PRINTABLE • GOOGLE • WEBSCAPE™



Build a game!

Students won't realize they are practicing measuring & calculating area! 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 #2

- Solve each "calculate area" problem.
- Record answers on your brochure.
- Check your answers in the Video Game Decoder.
- Add the health heart to the headset.
- Scan the QR code in the corner of the page.
- Move on to the challenge #3.



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



- Which equation shows a way to calculate area for the following rectangle?



- $5 \times 7 = 12$ square units
- $5 \times 7 = 35$ square units
- $5 \times 6 = 30$ square units
- $5 \times 6 = 11$ square units

- Which equation shows a way to calculate area for the following rectangle?



- $6 \times 3 = 18$ square units
- $6 \times 3 = 9$ square units
- $6 \times 2 = 12$ square units
- $6 \times 2 = 8$ square units

- Which equation shows a way to calculate area for the following rectangle?



- $8 \times 8 + 8 \times 8 = 40$ square units
- $6 \times 7 = 42$ square units
- $6 \times 6 = 36$ square units
- $6 \times 6 + 6 \times 6 + 6 \times 6 + 6 \times 6 = 48$ square units

- Which equation shows a way to calculate area for the following rectangle?



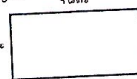
- $6 \times 6 + 6 \times 6 = 24$ square units
- $6 \times 5 = 30$ square units
- $6 \times 6 = 36$ square units
- $3 \times 6 + 2 \times 2 + 3 \times 3 + 3 \times 3 = 22$ square units

- What is the area of the following rectangle?



- 33 square units
- 30 square units
- 14 square units
- 16 square units

- What is the area of the following rectangle?



- 32 square units
- 60 square units
- 63 square units
- 16 square units

Challenge #1



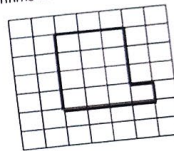
- Solve each "count the area" problem.
- Record answers on your brochure.
- Check your answers in the Video Game Decoder.
- Add the platform to the headset.
- Scan the QR code in the corner of the next page.
- Move on to the challenge #2.

- Each square in the grid is a 1×1 centimeter square. What is the area of the shape in square centimeters?



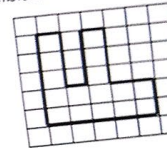
square centimeters
square centimeters
square centimeters
square centimeters

- Each square in the grid is a 1×1 centimeter square. What is the area of the shape in square centimeters?



- 13 square centimeters
- 15 square centimeters
- 12 square centimeters
- 16 square centimeters

- Each square in the grid is a 1×1 meter square. What is the area of the shape in square meters?



- 14 square meters
- 15 square meters
- 16 square meters
- 18 square meters

4 Mathematics Challenges

Challenge #3



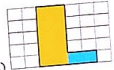
1. Solve each "calculate area" problem.
2. Record answers on your brochure.
3. Check your answers in the Video Game Decoder.
4. Add the power up star to the headset.
5. Scan the QR code in the corner of the next page.
6. Move on to the challenge #4.

1. Each square in the figure below has an area of 1 square unit. We can break the figure into two parts. Which equation represents the area of the entire figure?



- a. $4 \times 2 \times 4 \times 4$
b. $(4 \times 2) + (4 \times 4)$
c. $(6 \times 4) + (4 \times 4)$
d. $(4 \times 2) \times (4 \times 4)$

2. Each square in the shaded figure below has an area of 1 square unit. We can break the figure into two parts. Which equation represents the area of the entire figure?



- a. (2×5)
b. $5 \times 2 \times 2 \times 1$
c. 5×4
d. $(5 \times 2) \times (1 \times 2)$

3. The figure below is made of 2 rectangles. Find the area of the shaded figure.



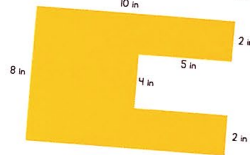
- a. 42 square centimeters
b. 18 square centimeters
c. 36 square centimeters
d. 46 square centimeters

4. The figure below is made of 3 rectangles. Find the area of the shaded figure.



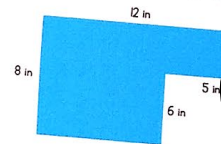
- a. 48 square inches
b. 44 square inches
c. 31 square inches
d. 42 square inches

5. The figure below shows a rectangle with a smaller rectangle cut out. Find the area of the shaded figure.



- a. 51 square inches
b. 100 square inches
c. 60 square inches
d. 46 square inches

6. The figure below shows a rectangle with a smaller rectangle cut out. Find the area of the shaded figure.



- a. 126 square inches
b. 66 square inches
c. 60 square inches
d. 45 square inches

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.

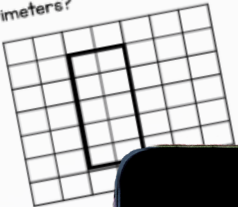
Learn more!



Challenge #1

1. Solve each "count the area" problem.
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 the challenge #2.

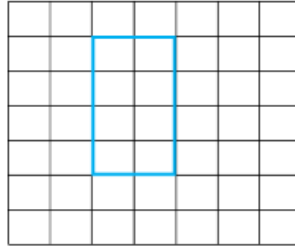
1. Each square in the grid is a 1×1 centimeter square. What is the area of the shape in square centimeters?



- a. 5 square centimeters
b. 6 square centimeters
c. 7 square centimeters
d. 8 square centimeters

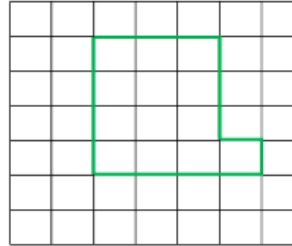
Count the Area

1. Each square in the grid is a 1×1 centimeter square. What is the area of the shape in square centimeters?



a. 5 square centimeters

2. Each square in the grid is a 1×1 centimeter square. What is the area of the shape in square centimeters?



a. 13 square centimeters

b. 12 square centimeters

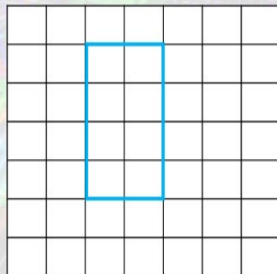
c. 11 square centimeters

d. 10 square centimeters

©Julie Bacher



Each square in the grid is a 1×1 centimeter square.
What is the area of the shape in square centimeters?



5 square centimeters

6 square centimeters

7 square centimeters

8 square centimeters

©Julie Bacher

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!

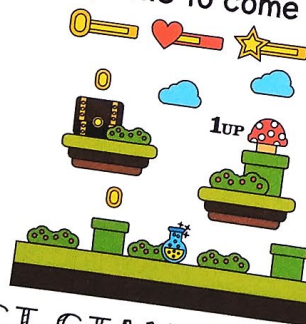
f the platform. You must use your
health points to come back.



YOU MUST STAY QUIET 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!

- Certificate of completion
- OOPS! Cards for differentiation

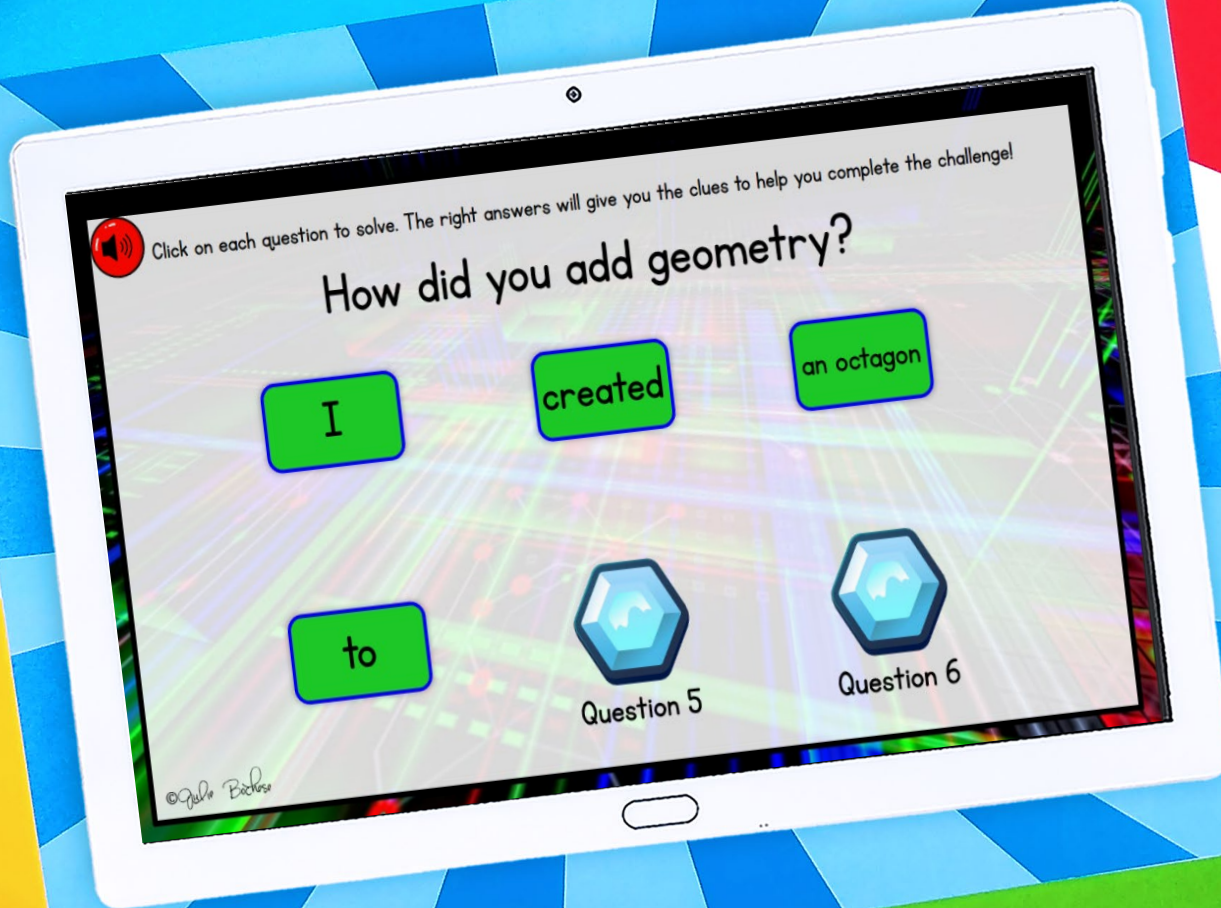
Learn more!



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

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

Learn more!

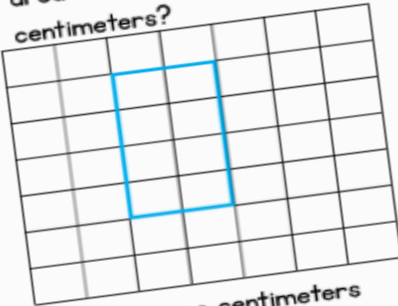


Count the Area

Challenge

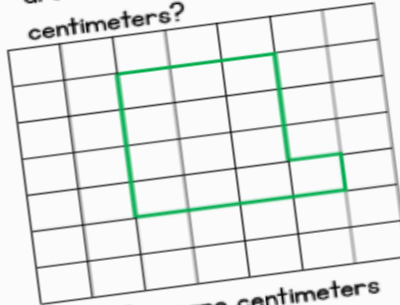


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b. 15 square centimeters
c. 12 square centimeters
d. 16 square centimeters

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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?

