

5th Grade

WORD PROBLEMS

SHERLOCK HOLMES  
ESCAPE ROOM



PRINTABLE • GOOGLE • WEBSCAPE™





Dear Watson,

I've been assigned the Case of the Missing Stamp Collector. His home was found empty last Tuesday night. I need your help.

You must solve the clues in the stamp collector's house to find out where he has been taken.

- Find the crooked picture frame.
- Find the mop used to clean up the scene.
- Find the key to the hidden door.
- Unlock the door to find a letter from the rival stamp collector.

After each challenge, add the clue to your library to solve the case.

Sincerely,

*Sherlock Holmes*

# Help Sherlock Holmes!

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

Learn more!





# 4 Mathematics Challenges

- Challenges focused Word Problems
- Each challenge takes about 20-30 minutes

Learn more!



## Challenge #1



1. Solve each decimal word problem.
2. Record answers on your brochure.
3. Check your answers in the Detective Decoder.
4. Add the frame to your library.
5. Scan the QR code in the corner of the next page.
6. Move on to the challenge #2.

1. The stamp collector goes to the craft store and buys a hook to hang a painting for \$24.56 and a stand to hold another painting for \$37.74. How much money did he spend at the craft store?

Show your Work

- a. \$52.20  
b. \$62.30  
c. \$63.00

2. Sherlock Holmes' 2 heaviest paintings each weigh 28.51 pounds. The stamp collector's heaviest painting weighs 46.83 pounds. How much do all 3 heavy paintings weigh together?

Show your Work

- a. 103.85  
b. 108.56  
c. 128.84  
d. 105.87

4. Sherlock Holmes looked for the key for 25 hours and looked for the mop for 125 hours. How much more time did he spend looking for the key?

Show your Work

- a. 0.75 hours  
b. 1 hour  
c. 125 hours  
d. 15 hours

5. The rival stamp collector used 145 gallons of water in each of 5 different rooms to clean up his footprints. How many gallons of water did he use in all?

Show your Work

6. The bookcase is 6.45 feet wide and the hidden door is 4.78 feet wide. How much wider is the bookcase than the door?

Show your Work

## Challenge #2



1. Solve each multiply fractions word problem.
2. Record answers on your brochure.
3. Check your answers in the Detective Decoder.
4. Add the mop to your library.
5. Scan the QR code in the corner of the next page.
6. Move on to the challenge #3.

The stamp collector spent Friday night organizing stamps. It took him  $\frac{1}{3}$  hours to fill his first album. It took him  $\frac{1}{2}$  that time to fill the second. What fractional part of an hour did it take to fill the second album?

Show your Work

- a.  $\frac{1}{3}$  of an hour  
b.  $\frac{1}{4}$  of an hour  
c.  $\frac{2}{3}$  of an hour  
d.  $\frac{2}{4}$  of an hour

2. The stamp collector wanted to figure out how many minutes it took him to fill the second album. He multiplied  $\frac{2}{3}$  by 60 minutes to get his answer. How many minutes did the stamp collector say it took him? Solve the problem the stamp collector's way. Is he correct?

Show your Work

- a. 40 minutes, yes  
b. 30 minutes, no  
c. 120 minutes, no  
d. 60 minutes, yes

3. The stamp collector is organizing his favorite albums. Half of one album page will be filled with US stamps. The other half will be divided into thirds so he can put stamps from Great Britain, France, and Sweden. How many of the stamp collector's album pages will be filled with stamps from Great Britain?

Show your Work

- a.  $\frac{1}{3}$   
b.  $\frac{1}{6}$   
c.  $\frac{1}{2}$   
d.  $\frac{2}{3}$

Top Secret



### Challenge #3

1. Solve each dividing fractions word problem.
2. Record answers on your brochure.
3. Check your answers in the Detective Decoder.
4. Add the key to your library.
5. Scan the QR code in the corner of the next page.
6. Move on to the challenge #4.

1. The stamp collector had 3 friends come to his house after the art auction. They picked up three sandwiches on the way home and shared them evenly. How much of one sandwich did each person eat?

Show your Work

- a. 1 sandwich  
b.  $\frac{3}{4}$  of a sandwich

2. The stamp collector shared his latest stamp packs with 7 of his friends. He had 4 packs of stamps. Each pack had 10 stamps. How many stamps can each person get? What fractional part of one pack does this represent?

Show your Work

- a. 8 stamps,  $\frac{1}{4}$  of a pack  
b. 6 stamps,  $\frac{1}{3}$  of a pack

3. The stamp collector bought 8 pints of glue. He wants to pour the glue into squirt bottles that hold  $\frac{1}{6}$  of a pint of glue. How many total squirt bottles of glue can the stamp collector fill?

Show your Work

- a. 31  
b. 68

4. The stamp collector bought 14 gallons of paint to paint his house. How many walls can he paint if each wall needs  $\frac{1}{3}$  gallons of paint?

Show your Work

- a. 8 walls  
b.  $6\frac{1}{2}$  walls  
c.  $7\frac{1}{4}$  walls  
d. 6 walls

5. The top of the coffee table is  $5\frac{3}{4}$  feet long. If the area of the top is 23 square feet, find the width of the top of the coffee table.

Show your Work

- a. 4 feet  
b. 5 feet  
c. 6 feet  
d. 7 feet

6. A stamp collector's bookshelf is 42 inches wide. He wants to put books on one shelf. Each book is  $\frac{5}{8}$  of an inch wide. How many books fit on the shelf?

Show your Work

- a. 56 books  
b. 67 books  
c. 38 books  
d. 54 books

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



### Challenge #4

1. Solve each adding and subtracting fractions problem.
2. Record answers on your brochure.
3. Check your answers in the Detective Decoder.
4. Add the letter to your library.
5. Scan the QR code in the corner of the next page.
6. Collect the letter and solve the case!

1. Sherlock Holmes is marking 3 rooms with caution tape. He needs  $1\frac{1}{2}$  yards of caution tape for each room. The roll of tape has 4 yards of tape. Does he have enough caution tape to mark all three rooms?

Show your Work

- a. Not enough information to tell  
b. Yes  
c. No

2. Sherlock Holmes is making tea for himself to drink all day. He needs 4 one-cup servings of tea. He needs  $\frac{2}{3}$  of a teaspoon of honey for each serving. The bottle of honey has already been opened. He measures the honey and finds that there are  $3\frac{1}{3}$  teaspoons left. Does he have enough honey for his 4 servings?

Show your Work

- a. No  
b. Yes

3. Sherlock Holmes spent  $1\frac{3}{4}$  hours looking for the map and  $\frac{7}{8}$  of an hour looking for the key. How much time did he spend looking for the map and the key together?

Show your Work

- a.  $2\frac{5}{8}$  of an hour  
b.  $1\frac{7}{8}$  of an hour  
c.  $\frac{13}{8}$  of an hour  
d.  $2\frac{1}{4}$  of an hour

# 4 Mathematics Challenges

- 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 decimal word problem.
2. Record answers on your brochure.
3. Check your answers in the Detective Decoder.
4. Add the frame to your library.
5. Scan the QR code in the corner of the next page.
6. Move on to the challenge #2.



The stamp collector goes to the craft store and buys a hook to hang a painting for \$24.56 and a stand to hold another painting for \$37.74 How much money did he spend at the craft store?

Show your Work

- a. \$52.20  
b. \$62.30  
c. \$63.00  
d. \$56.30

1. Sherlock Holmes' 2 heavy paintings each weigh 2 pounds. The stamp collector's painting weighs 46.83 pounds. How much do all 3 heavy paintings weigh together?

Show your Work

1.

## Solve the Decimal Problem

The stamp collector goes to the craft store and buys a hook to hang a painting for \$24.56 and a stand to hold another painting for \$37.74 How much money did he spend at the craft store?

Show your work using an equation.

The answer is:

- a. \$52.20  
b. \$62.30

- ☐ Circle the #s.
- ☐ Underline the question.
- ☐ Box the words that are important.
- ☐ Eliminate info you do not need.
- ☐ Solve by showing your work.



1.

The stamp collector goes to the craft store and buys a hook to hang a painting for \$24.56 and a stand to hold another painting for \$37.74 How much money did he spend at the craft store?

\$52.20

\$62.30

\$63.00

\$56.30



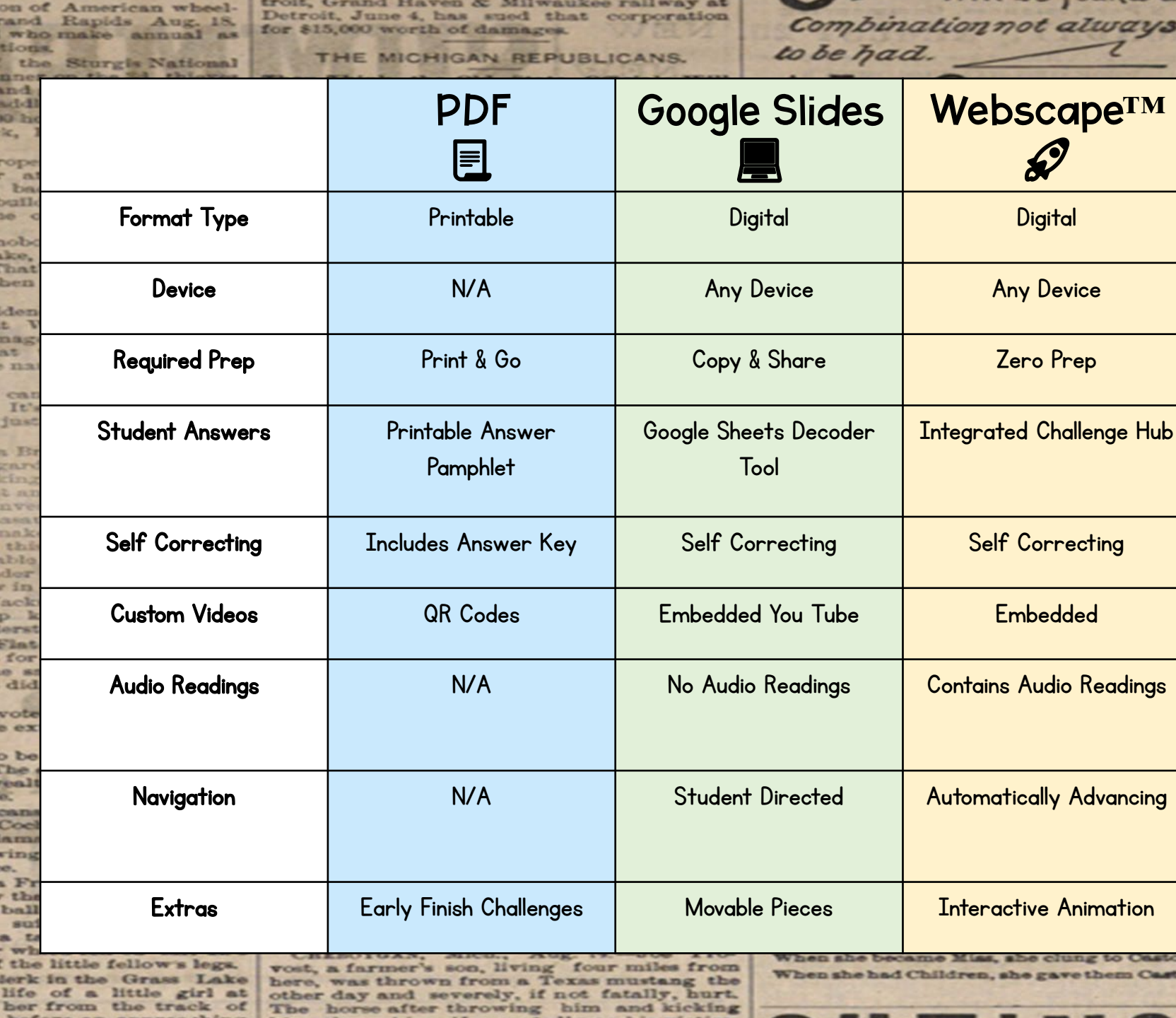
Hover for problem-solving steps




# 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

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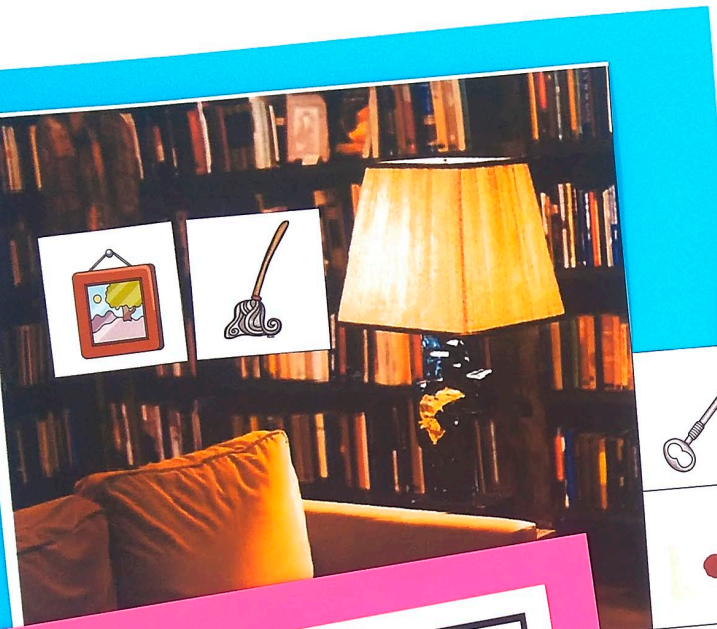




# Print

- 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!



## Detective 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 = Near b = In c = On d = Close to	a = the b = a c = an d = a	a = closet b = bathroom c = hallway d = kitchen	a = in the b = under the c = on the d = next to the	a = left b = right c = wooden d = big	a = table b = cabinet c = corner d = side

**Challenge 2**

question 1	question 2	question 3	question 4	question 5	question 6
a = On b = Under c = In d = Inside	a = the b = a c = an d = a	a = coffee b = bathroom c = office d = library	a = table b = cabinet c = bookcase d = next	a = by the b = to the c = under a d = to a	a = bathtub b = right c = candle d = stamp


**Challenge 3**

question 1	question 2	question 3	question 4	question 5	question 6
a = On b = In c = Near d = Under	a = a b = an c = the d = a	a = bookcase b = envelope c = fireplace d = candle	a = under b = on top c = to the right d = to the left	a = the b = of a c = of the d = to the	a = album b = of the c = of the d = to the

### DETECTIVE RECORDING BROCHURE


Record your challenge answers along your journey.

**CHALLENGE 3**



	Answer	Code
1	b	In
2	c	the
3		
4		
5		
6		

Where is the key?







Top Secret

## The Case of the Missing Stamp Collector

Harper Wilson  
(name)



has successfully completed the challenges and solved the Case of the Missing Stamp Collector.

7/02

(Date)

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



Sherlock Holmes



## Ooops!

You slipped in the mop water and bumped your head.



YOU MUST STAY QUIET FOR 5 MINUTES. NO SPEAKING!

© 2018 Betsy

# Print

- OOPS! Cards for differentiation

Learn more!





# Webscape <sup>TM</sup>

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

Learn more!





# Webscape <sup>TM</sup>

- 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

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

Learn more!



**1. Solve the Adding and Subtracting Fractions Problem**

Sherlock Holmes is marking 3 rooms with caution tape. He needs  $1\frac{1}{2}$  yards of caution tape for each room. The roll of tape has 4 yards of tape. Does he have enough caution tape to mark all three rooms?

Draw a model to show how you solved the problem.

The answer is:

- Not enough information to tell
- Yes
- No

☐ Circle the #s.  
☐ Underline the question.  
☐ Box the words that are important.  
☐ Eliminate info you do not need.  
☐ Solve by showing your work.



Secret

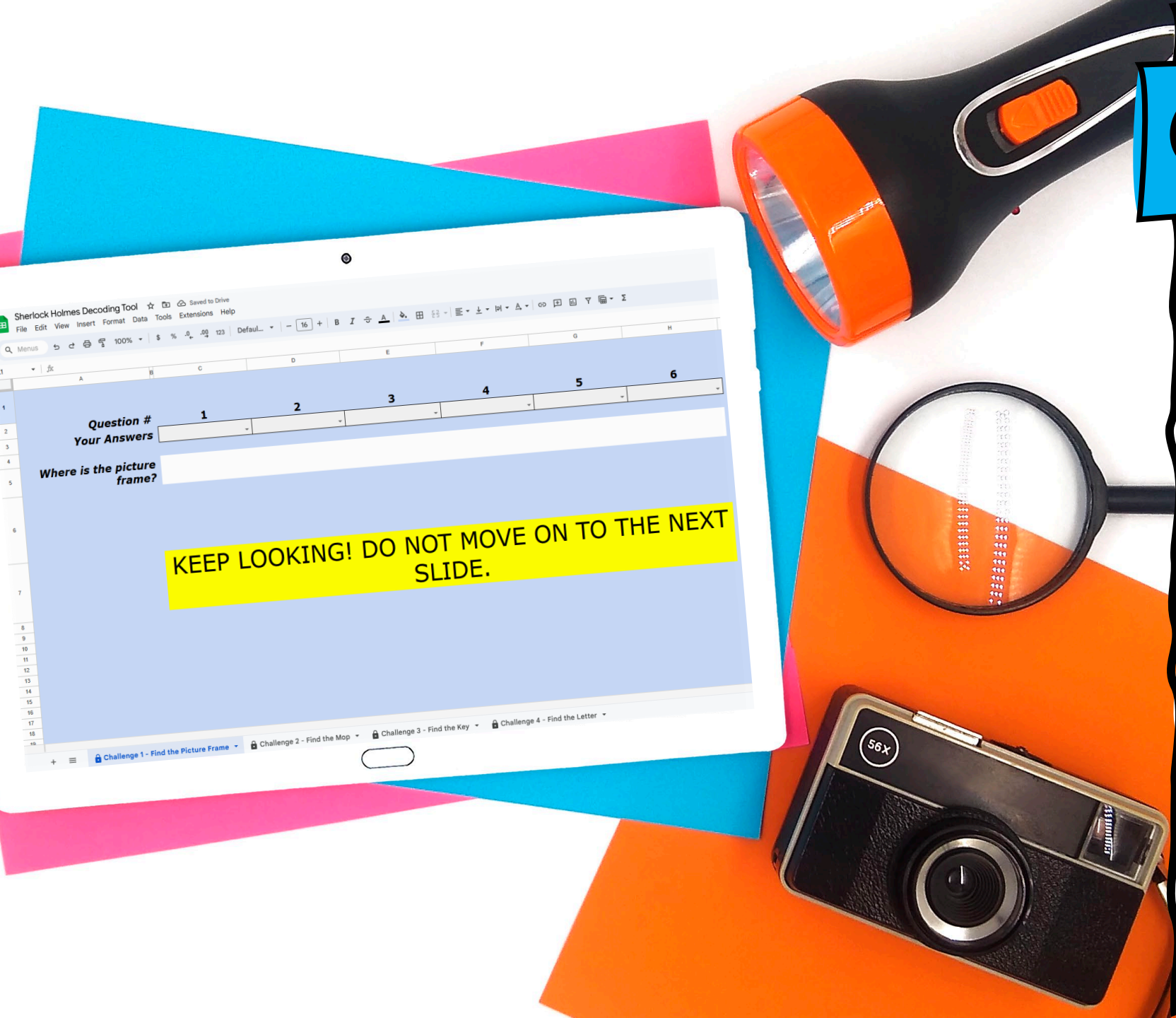




# Google Slides

- Toggle to self-checking decoder
- Decoder will prompt at the end of each challenge whether students are correct or need to check their work.

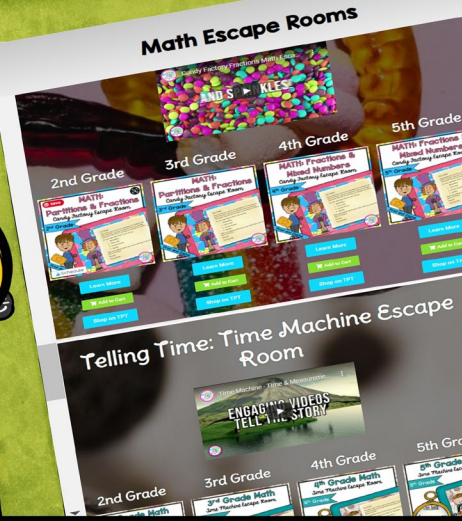
Learn more!





# ESCAPE ROOM BUNDLE

## Math Skills



## 5<sup>th</sup> Grade



After each one  
the boss.  
Sincerely,  
The Cookie Criminal

## 5th Grade



After each challenge, add the pin to your map.

Sincerely,

Friendly Neighborhood Crime Watchers

Sincerely,  
Friendly Neighborhood Crime Watchers