

5th Grade

MULTIPLYING & DIVIDING FRACTIONS

HAUNTED TRAIN  
ESCAPE ROOM

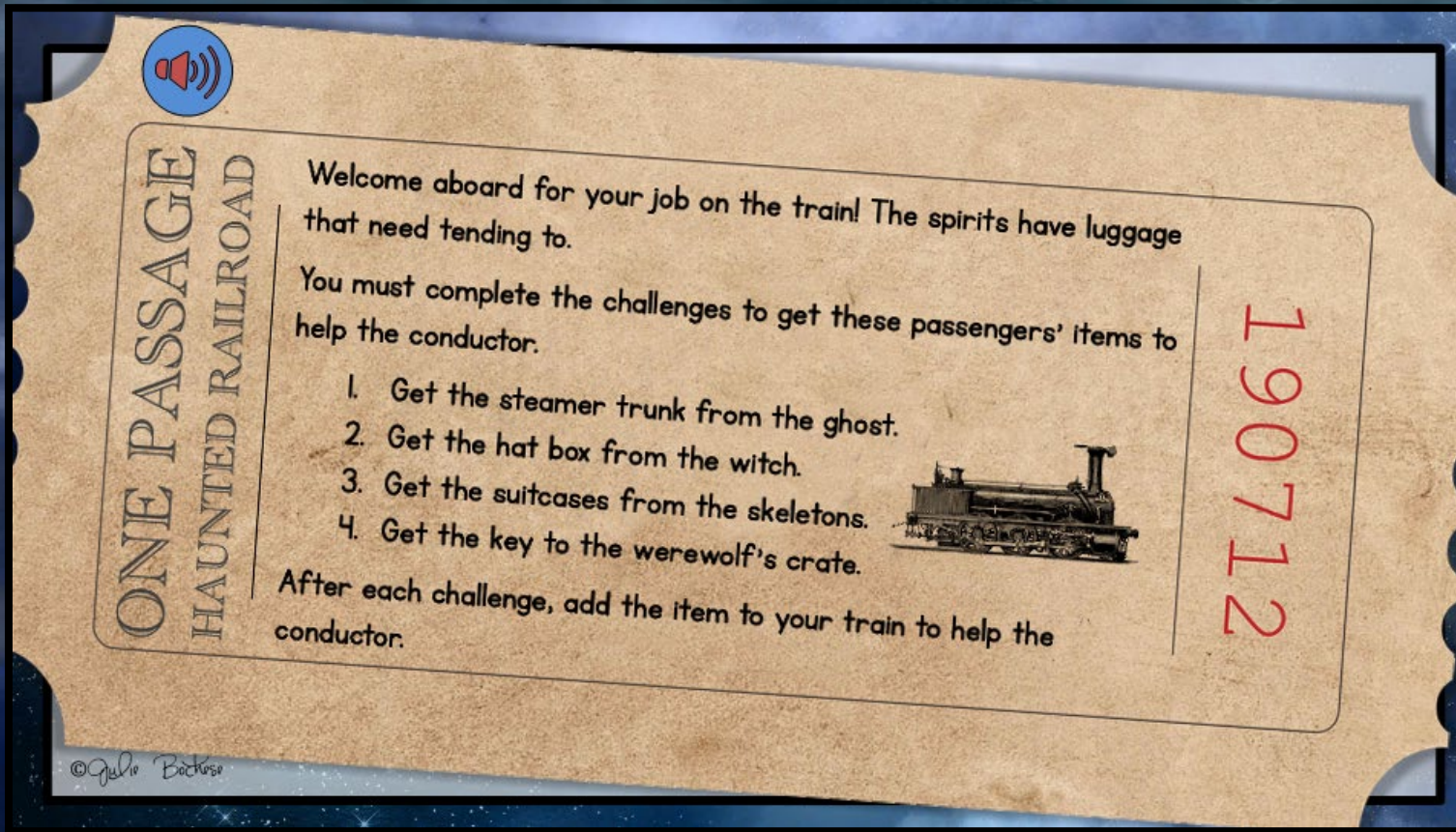
PRINTABLE • GOOGLE • WEBSCAPE™





# Welcome Aboard!

Students won't realize they are practicing Line Plots 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 each division as a fraction problem.
2. Record answers on your brochure.
3. Check your answers in the decoder.
4. Add the steamer trunk to the Haunted Train.
5. Scan the QR code in the corner of the last page.
6. Move on to challenge #2.



1. The ghost spent \$24 on his round-trip train ticket. The ticket was the same price for the journey to the destination and the return trip. Which fraction could you use to determine the price of each leg of the trip?

- a.  $\frac{2}{24}$
- b.  $\frac{24}{2}$
- c.  $\frac{18}{3}$

2. Which of the following is an equivalent for the answer to question #1?

- a.  $\frac{6}{1}$
- b.  $\frac{1}{12}$
- c.  $\frac{1}{14}$
- d.  $\frac{12}{1}$

3. How much did the ghost spend on each trip on the Haunted Train?

- a. \$0.14
- b. \$12
- c. \$6
- d. \$0.12

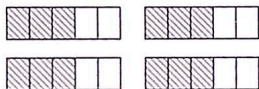
4. The dining car on the Haunted Train served earthworm pie. They divide 3 pies equally between 8 customers. What fraction does each customer receive?

## Challenge #2

1. Solve each fraction multiplication problem.
2. Record answers on your brochure.
3. Check your answers in the decoder.
4. Add the hat box to the Haunted Train.
5. Scan the QR code in the corner of the last page.
6. Move on to challenge #3.



1. What multiplication equation does the model below illustrate?



- a.  $\frac{3}{4} \times 5$
- b.  $\frac{5}{3} \times 4$
- c.  $\frac{4}{3} \times 3$
- d.  $\frac{3}{5} \times 4$

2. What is the product of the multiplication equation in question #1?

- a.  $\frac{15}{20}$
- b.  $\frac{12}{3}$
- c.  $\frac{12}{5}$
- d.  $\frac{20}{3}$

3. What is the correct response to question #2 written as a mixed number?

- a.  $2\frac{2}{5}$
- b.  $6\frac{2}{3}$
- c. 4
- d. It cannot be written as a mixed number.

4. Which multiplication equation has the same product as the correct response to question #3?

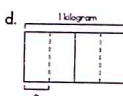
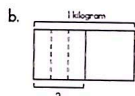
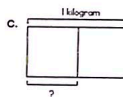
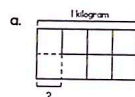
- a.  $\frac{3}{4} \times \frac{36}{3}$
- b.  $\frac{16}{12} \times \frac{20}{4}$
- c.  $\frac{8}{6} \times \frac{12}{3}$
- d.  $\frac{2}{5} \times \frac{12}{2}$

## Challenge #3

1. Solve each fraction division problem.
2. Record answers on your brochure.
3. Check your answers in the decoder.
4. Add the suitcases to the Haunted Train.
5. Scan the QR code in the corner of the last page.
6. Move on to challenge #4.



1. The skeleton packed several pairs of socks in his suitcases. His socks weighed  $\frac{1}{2}$  of a kilogram in total, and he split them evenly between his two suitcases. Which model shows how many kilograms of socks are in each suitcase?



2. How many kilograms of socks are in each suitcase in question #1?

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

3. The  $\frac{1}{2}$  of a kilogram of socks the skeleton packed is 6 pairs of socks. Which equation would you use to determine how much each pair of socks weighs?

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

4. How much does one pair of socks weigh?

- a.  $\frac{1}{12}$  kilogram
- b.  $\frac{1}{4}$  kilogram
- c.  $\frac{1}{8}$  kilogram
- d.  $\frac{1}{6}$  kilogram



- Challenges focused on Multiplying & Dividing Fractions
- Each challenge takes about 20-30 minutes

Learn more!





## Challenge #4

- Solve each fraction word problem.
- Record answers on your brochure.
- Check your answers in the decoder.
- Add the key to the Haunted Train.
- Scan the QR code in the corner of the last page.



I. There are three types of tickets for the Haunted Train: first-class, business class, and tourist class. The price of a first-class ticket is  $\frac{5}{4}$  the price of a business class ticket. A tourist ticket is  $\frac{2}{3}$  the price of a business class ticket. Which ticket type is the most expensive?

- There is not enough information to answer.
- Tourist class
- Business class
- First-class

2. If a business class ticket costs \$24, what price of a tourist class ticket?

- \$30
- \$16
- \$18
- \$20

3. A child ticket costs  $\frac{3}{4}$  of an adult ticket. How much does a child ticket in business class?

- \$20
- \$16
- \$12
- \$18

4. The maximum weight a piece of luggage weigh is 65 pounds. The werewolf's crate of the maximum weight allowed. How much does the werewolf's crate weigh?

- $74\frac{2}{7}$  pounds
- $48\frac{1}{2}$  pounds
- $56\frac{7}{8}$  pounds
- $1\frac{1}{2}$  pounds

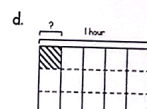
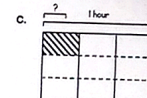
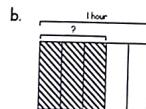
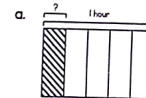
TRAIN

5. Once in his crate, the werewolf goes to sleep, but he wakes up every time the train blows its horn. In  $\frac{1}{5}$  of an hour, the horn is blown 4 times. If there is an equal interval of time between each time the horn is blown, how often does the werewolf wake up?

- Every  $\frac{1}{20}$  of an hour
- Every  $\frac{1}{5}$  of an hour
- Every  $\frac{4}{5}$  of an hour
- Every  $\frac{5}{20}$  of an hour

6. In that same  $\frac{1}{5}$  of an hour that the horn is blown 4 times, the train travelled 3 miles. If the train was travelling at a constant speed, how long did it take the train to travel one mile?

7. Which model could you use to help you solve question #6?



8. How many minutes did it take the train to travel one mile in question #6?

- 12 minutes
- 4 minutes

9. The train stewards feed the werewolf some raw meat in his crate during the journey. They start off with 3 pounds of meat and they feed him  $\frac{1}{3}$  of a pound each time. How many times can they feed the werewolf before the meat runs out?

- 1 time
- 3 times
- 9 times
- 6 times

11. As the train approaches its final destination, the stewards collect the trash from the passenger cars. The first steward collects  $6\frac{2}{5}$  pounds of trash. The second steward collects  $\frac{7}{8}$  as much trash as the first steward. How much trash did the second steward collect?

- $\frac{35}{256}$  pounds
- $7\frac{11}{35}$  pounds
- $5\frac{3}{5}$  pounds
- $7\frac{11}{40}$  pounds

10. The conductor keeps the key to the werewolf's crate for safekeeping. He puts it on his keyring where he has 8 keys in total. His keyring weighs  $2\frac{1}{2}$  pounds. If each key weighs the same amount, how much does each key weigh?

- $\frac{5}{16}$  of a pound
- $\frac{1}{8}$  of a pound
- $\frac{1}{4}$  of a pound
- $\frac{5}{8}$  of a pound

12. One pound is approximately  $\frac{9}{20}$  of a kilogram. Find the answer to question #11 in kilograms.

- $12\frac{4}{9}$  kilograms
- $2\frac{13}{25}$  kilograms
- $3\frac{219}{800}$  kilograms
- $3\frac{51}{175}$  kilograms

Scan the QR code or click here to view the video.



# 4 Mathematics Challenges

- Themed videos integrated throughout the Escape Room to keep kids engaged.
- Students work in groups, partners, or independently.

Learn more!





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1. The ghost spent \$24 on his round-trip train ticket. The ticket was the same price for the journey to the destination and the return trip. Which fraction could you use to determine the price of each leg of the trip?

- a.  $\frac{2}{24}$   
b.  $\frac{24}{2}$   
c.  $\frac{18}{3}$   
d.  $\frac{2}{14}$

2. Which  
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a.

b.

3. Ho  
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Challenge 1

## Solve the fraction problems.

The ghost spent \$24 on his round-trip train ticket. The ticket was the same price for the journey to the destination and the return trip.

1. Which fraction could you use to determine the price of each leg of the trip? ☐

- a.  $\frac{2}{24}$       b.  $\frac{24}{2}$       c.  $\frac{18}{3}$       d.  $\frac{2}{14}$

2. Which of the following is an equivalent fraction for the answer to question #1? ☐

- a.  $\frac{6}{1}$       b.  $\frac{1}{12}$       c.  $\frac{1}{14}$       d.  $\frac{12}{1}$

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1

The ghost spent \$24 on his round-trip train ticket. The ticket was the same price for the journey to the destination and the return trip.

Which fraction could you use to determine the price of each leg of the trip?

$$\frac{2}{24}$$

$$\frac{24}{2}$$

$$\frac{18}{3}$$

$$\frac{2}{14}$$

©Julie Becker




# 3 Versions

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

Learn more!





	<b>PDF</b> 	<b>Google Slides</b> 	<b>Webscape™</b> 
<b>Format Type</b>	Printable	Digital	Digital
<b>Device</b>	N/A	Any Device	Any Device
<b>Required Prep</b>	Print & Go	Copy & Share	Zero Prep
<b>Student Answers</b>	Printable Answer Pamphlet	Google Sheets Decoder Tool	Integrated Challenge Hub
<b>Self Correcting</b>	Includes Answer Key	Self Correcting	Self Correcting
<b>Custom Videos</b>	QR Codes	Embedded You Tube	Embedded
<b>Audio Readings</b>	N/A	No Audio Readings	Contains Audio Readings
<b>Navigation</b>	N/A	Student Directed	Automatically Advancing
<b>Extras</b>	Early Finish Challenges	Movable Pieces	Interactive Animation

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*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
- Certificate of completion

Learn more!





# Haunted Train Escape Room

Riley Smith

(name)

has successfully completed the challenges  
and helped the conductor.

24 / 03

(date)

The Conductor



## Print

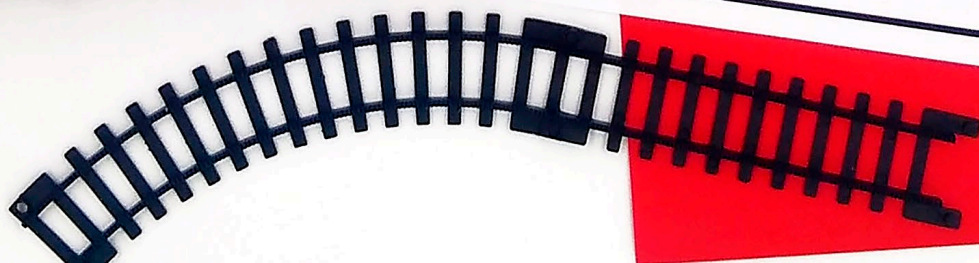
- OOPS! Cards for differentiation

### Oops!

You got spooked by the ghost.



You must stay quiet for 5 minutes.  
No speaking!



TRAIN

Learn more!





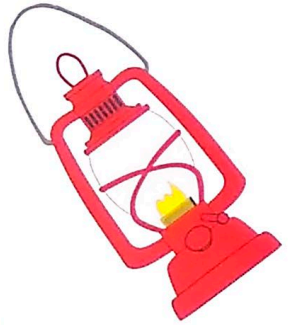


# Webscape™



- 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 to two problems per slide
- Students drag to circle their answers

Learn more!

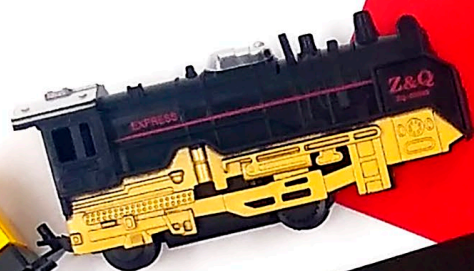
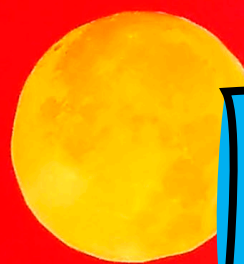


**4** Solve the word problems

1. There are three types of tickets for the Haunted Train: first-class, business class, and tourist class. The price of a first-class ticket is  $\frac{5}{4}$  the price of a business class ticket. A tourist ticket is  $\frac{2}{3}$  the price of a business class ticket. Which ticket type is the most expensive?

a. There is not enough information to answer.  
b. Tourist class  
c. Business class  
d. First-class

2. If a business class ticket costs \$24, what is the price of a tourist class ticket?  
a. \$30      b. \$16      c. \$18      d. \$20

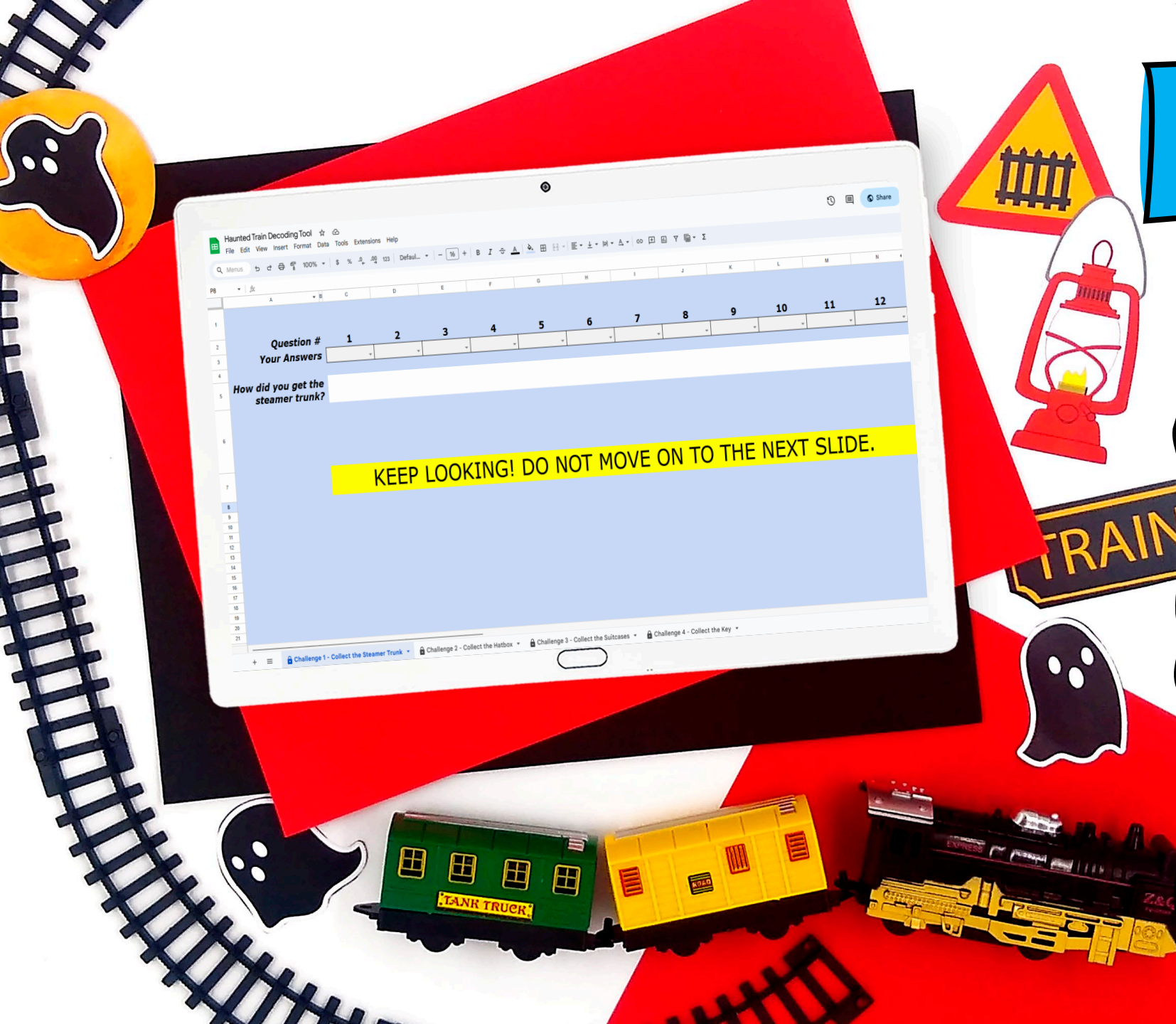




# Google Slides

- 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

5th Grade



Math Escape Rooms

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


Telling Time: Time Machine Escape Room

Print and Digital

Engage, Learn, Tell the Story

## Graphing Points Baking Escape Room

5th Grade



Dear Student,

We love baked goods of all kinds. The boss of the bakery wants the best treats you can. Prove you can make the boss will let you go.

You must make these 4 items:

1. Donuts
2. Gingerbread cookies
3. Pie
4. Cake

After each challenge, add the item to the boss.


Sincerely,  
The Cookie Criminal

Print and Digital

Magi CORE

## MATH: Classify Shapes Catch the Bandit Escape Room

5th Grade



Dear Student,

You're having a great time visiting the big city! But while you're out seeing the sites, petty crime caught up with you. A bandit stole some money out of your backpack.

You must follow the bandit to catch him and get your money back.

1. Go to the waterfront.
2. Go to Chinatown.
3. Go to the park.
4. Go to Downtown.

After each challenge, add the pin to your map to catch the bandit.

Sincerely,  
Friendly Neighborhood Crime Watchers

Print and Digital

Magi CORE