

7th  
Grade

# Ratios & Proportions

## Digital Escape Room



Standards  
7.RP.A.1, 7.RP.A.2,  
7.RP.A.2b, 7.RP.A.2c,  
7.RP.A.3

7th Grade Math Skills  
Equivalent ratios with fractions and decimals,  
multi-step word problems with proportions,  
finding the constant of proportionality from  
traphs, tables, and equations

# Fast Facts

 No prep, click & go!

 Escape Time ~40-60 minutes

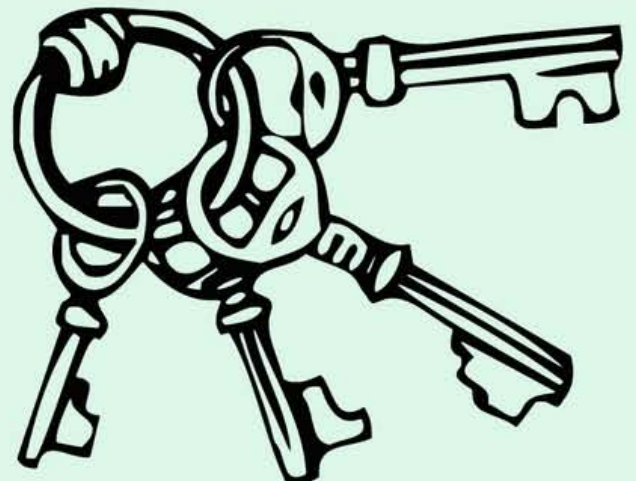
 Use in pairs, small groups, or individually

 Requires internet connected device

 Self-Checking

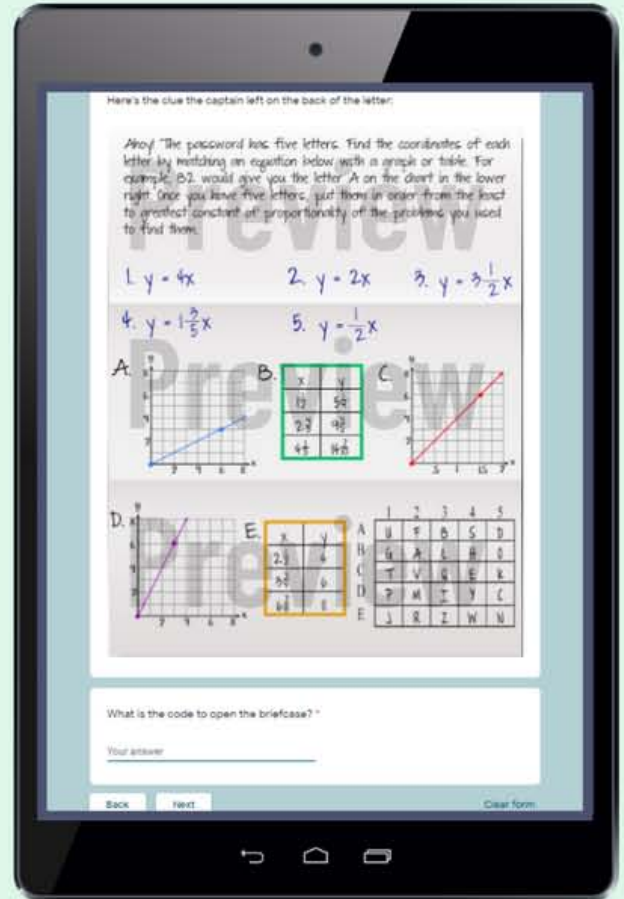
 Virtual or in-person

 Five engaging puzzles



# How it Works:

- The escape room is automated by a Google Form™ (Google™ accounts are not required).
- Use the quick start link to click & go, or create a copy of the form to save to your drive (the teacher must have a Google Account to save a copy).
- Students only progress through the puzzles when correct answers are entered.
- The form provides hints if students enter incorrect answers.



# Puzzle Preview



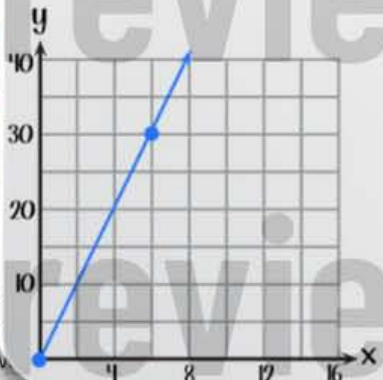
## Calculation Cruise Lines

This puzzle is accessible to all ages.

Hint: Look for a constant of proportionality between the x and y values.



## Calculation Cruise Lines



$$y = \frac{9}{3}x$$

x	y
.9	7.2
3.1	24.8
4.5	36

Ahoy! The puzzle is accessible to all ages. You will need to use your knowledge of proportional relationships to find the constant of proportionality of the problems you will be given to find them.

1.  $y = 4x$       2.  $y = 2x$       3.  $y = 3x$   
 4.  $y = 1\frac{3}{5}x$       5.  $y = \frac{1}{2}x$



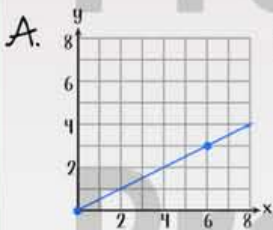
## Calculation Cruise Lines

A secret passage to the engine room lies within a room on the cruise ship. These cruise facts will help you find that room. You need to know the floor, sector number, and room number to find this crew room.

**Floor Number:** The gift shop offers packs 15 postcards for \$22.50. The relationship between the number of postcards purchased and the price is proportional.

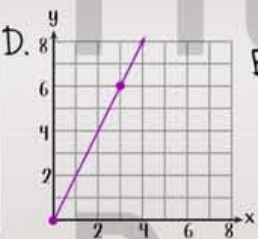
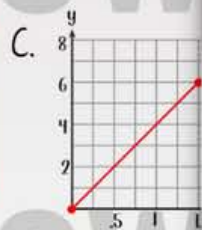
**Sector Number:** This cruise ship travels at a constant rate of  $7\frac{1}{2}$  miles every 20 minutes. At that rate, how far does the ship travel in an hour?

The ship's kitchen stocks  $1\frac{3}{8}$  quarts of ice cream for every  $\frac{1}{4}$  cake. There are 10 cakes in the kitchen. How many quarts of ice cream are there?



B. 

x	y
$1\frac{1}{2}$	$5\frac{1}{4}$
$2\frac{3}{5}$	$9\frac{3}{5}$
$4\frac{1}{5}$	$14\frac{7}{10}$



E. 

x	y
$2\frac{1}{2}$	4
$3\frac{3}{4}$	6
$6\frac{7}{8}$	11

	1	2	3	4
A	U	F	B	S
B	G	A	L	H
C	T	V	Q	E
D	P	M	I	Y
E	J	R	Z	W

# Puzzle Preview

Four buttons to push to unlock the door. #BAM  
You've got this.



Finally, turn the handle to the right y number of degrees:


Number of Rotations	Degrees
1.5	540
2.5	y
3.5	1,260

You will travel at a speed of 22.5 feet per second down the slide. The slide is 184.5 feet long. How many seconds will it take you to reach the end of the slide? Turn the wheel to the left that many times.

Attention! A water slide to the engine room is behind this red door. Water is rushing down the slide at a rate of one gallon every three seconds. At this rate, how many gallons of water rush down the slide in one second? Turn the wheel a fraction of a rotation to the right.

# You May Also Like


**The Great CLASSROOM ESCAPE**  
**SUBMARINE SABOTAGE**  
Addition and Subtraction of Rational Numbers



**NO PREP!**  
**SELF-CHECKING!**

**7<sup>TH</sup> GRADE MATH CONTENT 7.NS.A.1**  
**DIGITAL ESCAPE ROOM!**

**The Great CLASSROOM ESCAPE**  
**ESCAPE THE ~~Circle~~ OVAL OFFICE**  
Area & Circumference of Circles



**NO PREP!**  
**SELF-CHECKING!**

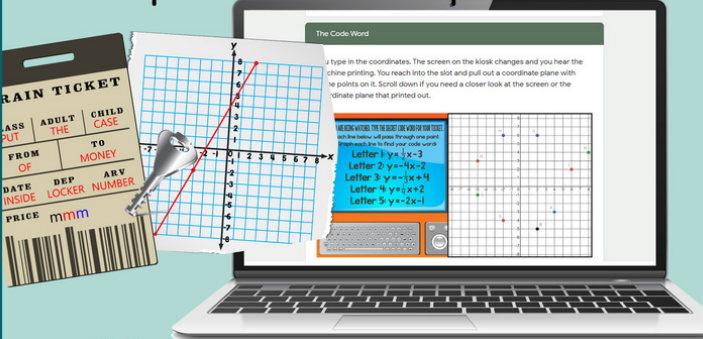
**7.G.B.4**  
**DIGITAL ESCAPE ROOM!**

**The Great CLASSROOM ESCAPE**  
**ESCAPE THE LOCKER ROOM**  
Vertical, Complementary & Supplementary Angles



**7<sup>TH</sup> GRADE GEOMETRY CONTENT 7.G.B.5**  
**DIGITAL ESCAPE ROOM!**

**The Great CLASSROOM ESCAPE**  
Linear Functions  
Slope-Intercept Form



**8<sup>TH</sup> GRADE CONTENT 8.F.A.2, 8.F.A.3, A.F.B.4**  
**DIGITAL ESCAPE ROOM!**



# TERMS OF USE AND COPYRIGHT

This activity was designed by a teacher and mom. It is only available for purchase at [greatclassroomescape.com](http://greatclassroomescape.com) and [teacherspayteachers.com](http://teacherspayteachers.com). Please respect our terms of use and copyright rules.

## YOU MAY

- The original purchaser may use this product for personal use, in one classroom, or with one family for the children that live in that home.
- Post links to the digital breakouts for your class on a password protected learning management system such as Google Classroom™, Seesaw™, Schoology™.
- Purchase multiple licenses at a discounted rate in order to use this product in more than one classroom.

## YOU MAY NOT

- Give this product to friends or colleagues in either printed or digital form.
- Post this item for sale or for free.
- Copy this item for use by others.
- Upload this product to any website for others to download. This is a violation of the Digital Millennium Copyright Act.
- Post links to this product on a **non-password protected website**. This includes personal websites, class websites, district websites, etc.
- Use this product on for-profit sites such as Outschool.

Copyright ©2019 Kiersten Yager Williams. All Rights Reserved. Duplication of this product in any format for commercial purposes, for teachers other than the original purchaser, or for entire school systems is strictly prohibited.

Please contact [kiersten@greatclassroomescape.com](mailto:kiersten@greatclassroomescape.com) if you have any questions about copyright or our terms of use.

