



Multiplying Decimals

Print or Digital Escape Room

5th
Grade
5.NBT.B.7

by
The Great Classroom Escape

TOP SECRET



CONFIDENTIAL

Document 6

Vault Access

The vault has two locks. The first one is sound activated. Find five letters in the grid by solving the multiplication problems and choosing the letter in the corresponding row and column with the problem and solution. Unscramble the letters to form a word.

1.8 × .2 = 0.36
4 × .2 = 0.8

W	A	T	C	H
C	L	O	C	K

Document 3

Don't cut corners, COUNT corners. Security cameras will be turned for a short time from _____ a.m. until _____ a.m.

It appears that this document reveals the window of time that our team has to complete the mission. When will the cameras be turned off?

*Replace the decimal with a colon in the solutions to find a time. This is the window to retrieve the artifact.

Copyright ©2025 Great Classroom Escape, LLC

GPS Coordinates of Object

Find the exact location of the object by calculating how many degrees east and how many degrees north the object is located.

Latitude: _____ °N

Longitude: _____ °E

0 1 2 3 4 5 6 7 8 9

Decipher Document 7

We've informed the response team that the sound activated lock can be opened by quacking. They are all quacking on the plane in preparation for the mission. It may look unprofessional, but the team will be ready to jump into action.

Step 2: Vault Combination - Each square represents one whole

0.3 × 0.6 =

0.3 × 0.4 =

0.3 × 0.2 =

Secret Mission Themed Escape Room

- Unique, fun, and engaging ways to practice standards-based math
- Seven challenges focus on standards-based math skills in a way that encourages active learning and collaboration.



Document 6

This document reveals that there will be two steps to opening the vault.

Vault Access

The vault has two locks. The first one is sound activated. Find five letters in the grid by solving the multiplication problems and choosing the letter in the corresponding row and column with the problem and solution. Unscramble the letters to form a word.

1.8 x .2
.4 x .2
50 x .16
.4 x 9
.01 x 80

W	A	T	C	H
C	L	O	C	K
V	A	U	L	T
F	E	T	C	H
Q	U	I	C	K

Document 7

This is the final document our team intercepted. It tells the combination to the vault. The lock must have numbers in the hundredths. Find the combination so our team can move in!

Step 2: Vault Combination - Each square represents one whole

0.3 x 0.6 = 0.18

0.3 x 0.4 = 0.12

0.3 x 0.2 = 0.06

0.6 x 0.4 = 0.24

0.6 x 0.2 = 0.12

0.4 x 0.2 = 0.08

Copyright ©2025 Great Classroom Escape, LLC

Document 6

This document reveals that there will be two steps to opening the vault.

Vault Access

The vault has two locks. The first one is sound activated. Find five letters in the grid by solving the multiplication problems and choosing the letter in the corresponding row and column with the problem and solution. Unscramble the letters to form a word.

1.8 x .2
.4 x .2
50 x .16
.4 x 9
.01 x 80

W	A	T	C	H
C	L	O	C	K
V	A	U	L	T
F	E	T	C	H
Q	U	I	C	K

Document 7

This is the final document our team intercepted. It tells the combination to the vault. The lock must have numbers in the hundredths. Find the combination so our team can move in!

Step 2: Vault Combination - Each square represents one whole

0.3 x 0.6 = 0.18

0.3 x 0.4 = 0.12

0.3 x 0.2 = 0.06

0.6 x 0.4 = 0.24

0.6 x 0.2 = 0.12

0.4 x 0.2 = 0.08

Copyright ©2025 Great Classroom Escape, LLC

Color, Black & White + Digital Option

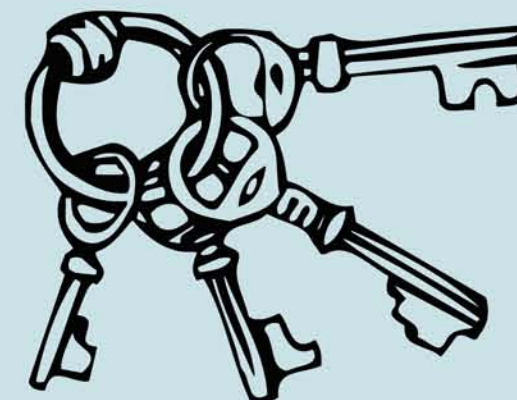
Standard
5.NBT.B.7

5th Grade Math Skills

- **Multiplying decimals to the hundredths**
- **Multiplying decimals by whole numbers**
- **Multiplying decimals by decimals (factors to the tenths, products to the hundredths)**
- **Recognizing visual models for multiplying decimals**

Fast Facts

-  **Low prep printable, no-prep digital**
-  **Allow 30-60 minutes**
-  **Use individually, in pairs, or in small groups**
-  **Digital requires internet connected device**
-  **Answer Key Included**
-  **Virtual or in-person**
-  **7 Engaging Puzzles**



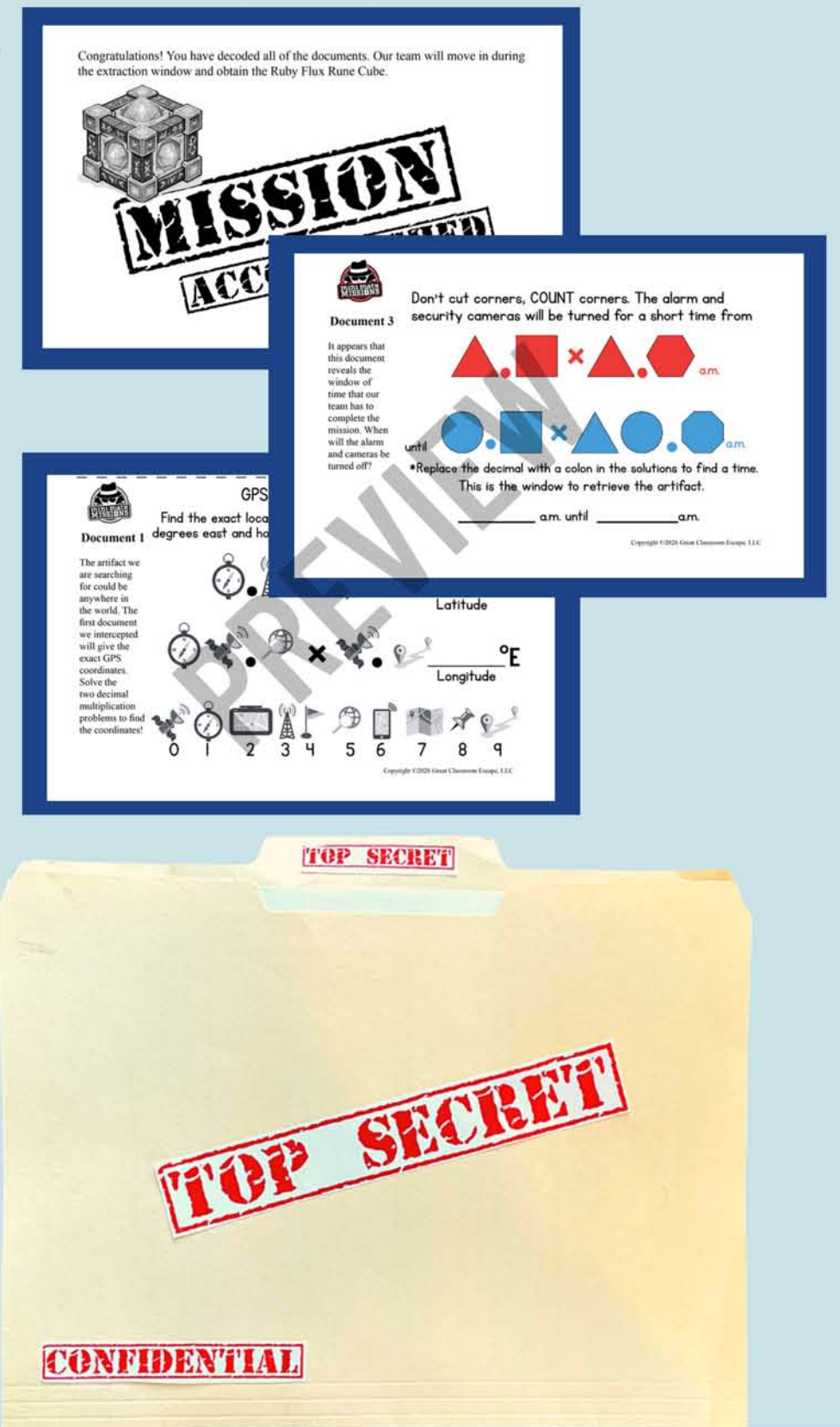
How it Works: Digital

- 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.
- No prep, easy to manage, & self-checking!



How it Works: Print

- Black & white OR color printable clues
- Print, & cut clues
- Check students answers before providing the next clue.
- Clear directions provided
- Make as immersive/engaging as you'd like, or keep it simple!
- Tip: laminate the clues for future use
- Use all seven puzzles together as an escape room, or use each puzzle individually as a task card or exit ticket

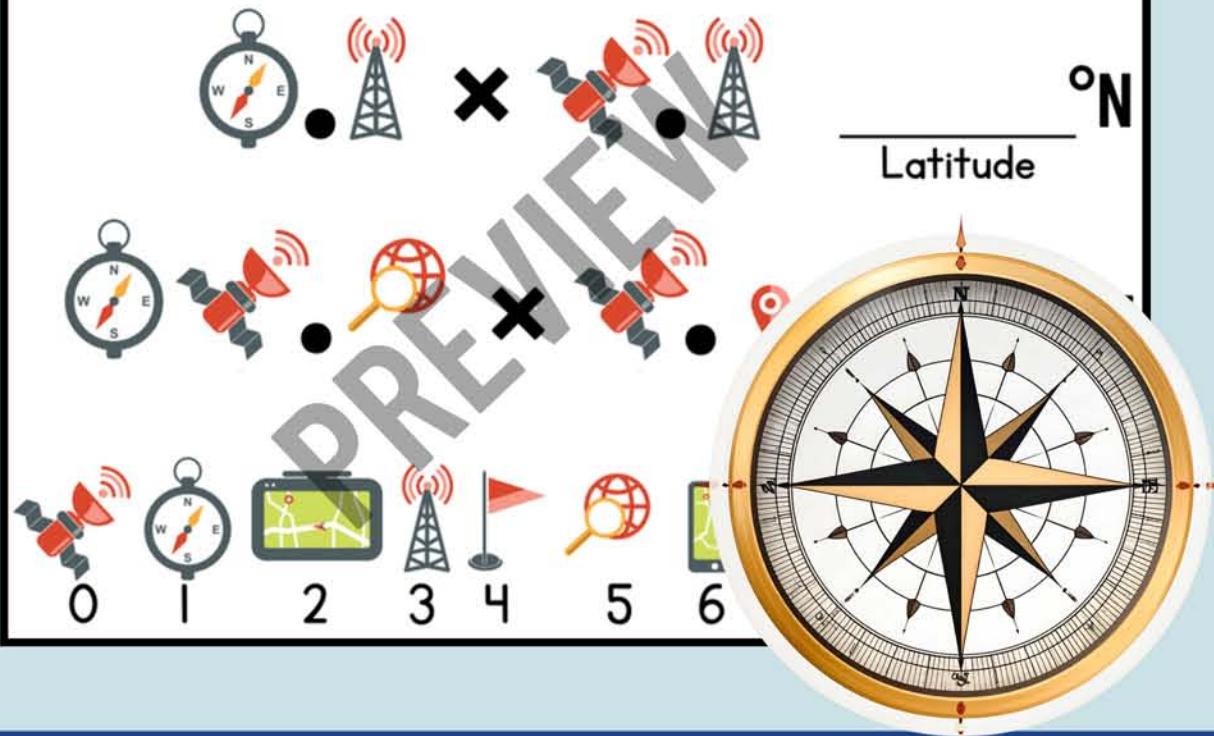


Puzzle Preview

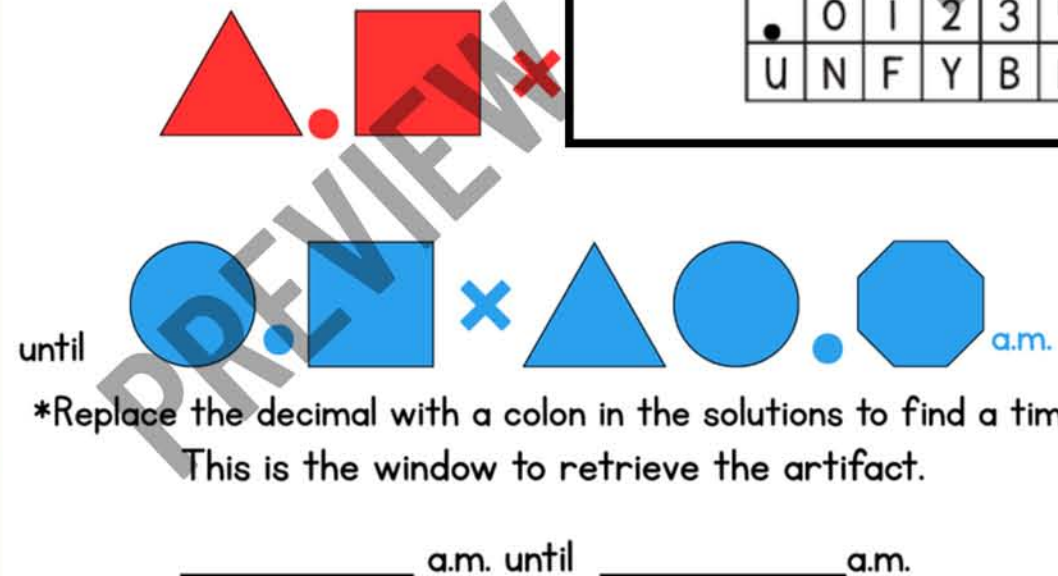
***Please check to see if the rigor of the puzzles suits your students.**

GPS Coordinates of Object

Find the exact location of the object by calculating how many degrees east and how many degrees north the object is located.



Don't cut corners, COUNT security cameras will be turned on.



Target Object

- Change the letters into decimal numbers
- Solve the problems
- Change your letters back into numbers
- The $\times$ is a multiplication symbol, not an X



YUR $\times$ FUE B $\times$ LUB E $\times$ NULF Y $\times$ BUFX

.	0	1	2	3	4	5
U	N	F	Y	B	R	



Pass the Guard

The guard will let you pass if you know the secret pass phrase.

- 1 LONG
- 2 EVERY
- 3 THE
- 4 DETECTION
- 5 TRAFFIC
- 6 PEOPLE
- 7 SHORT
- 8 AVOIDS
- 9 WELCOMES
- 0 PATH
- WAY



Unlock the Exterior Door

The code is six letters.

$$2 \times .05 =$$

$$.3 \times .5 =$$

$$.2 \times .1 =$$

$$.9 \times .2 =$$

$$.1 \times .1 =$$

$$.4 \times .5 =$$



A	B	C									M
.01	.02	.03									.13
N									X	Y	Z
.14									.24	.25	.26

Puzzle Preview

Vault Access



The vault has two locks. The first one is sound activated. Find five letters in the grid by solving the multiplication problems and choosing the letter in the corresponding row and column with the problem and solution. Unscramble the letters to form a word.



	.8	.36	8	3.6	.08
$1.8 \times .2$	W	A	T	C	H
$.4 \times .2$	C	L	O	C	K
$50 \times .16$	V	A	U	L	T
$.4 \times 9$	F	E	T	C	H
	C	K			

Step 2: Vault Combination - Each square represents one whole

