



Place Value & Rounding with Decimals Math Mission Escape Room

**5th
Grade
5.NBT.A
standards**

by
**The Great
CLASSROOM escape**

TOP SECRET

Task 8: Guide the Drone
"Can you help us guide the drone to the microchip? We have to enter precise directions."

Target: Microchip



Round _____

Round _____

Task 6: Unlock the Tablet
"We stepped out of the elevator into a long hallway. A few feet into the hall, the floor is lava, literally. There's a table with a drone on it, but the tablet to control the drone is locked. The door to room 306 is open, so we need to fly the drone in to get the microchip. There's a clue on the table next to the drone."

Here's the clue: "Follow the digit 7 to find the password."



Enter Password:

	3742	57.03	3.587	1472	5973	
ones	S	H	O	R	T	
tens	O	V	E	R	T	
tenths	B	R	A	V	E	
hundredths	R	A	N	G	E	
				R	V	E

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Task 2: Distract the Guard
"There's a guard! An undercover agent sent a coded message with a way to distract the guards. Can you decode the passphrase?"

What does it tell the guard?

50,000 + 800 + 12	ANGRY
800 + 3 + .03	CLEVER
3,000 + 20 + 1 + .9	SILENT
100 + 40 + .05	SPIES
58,012	HAWKS
50,812	OWLS
50,800.12	WATCH
800.03	FOLLOW
803.30	DIVERT
803.03	DRAMA
3,219	DRONES
3,201.9	DAMAGE
3,021.9	
140.05	
140.50	
104.05	

What is the pass phrase?

They're Getting Away!

"We are on our way to the elevator, but a group of twelve vehicles just left the compound. 11 of the vehicles are decoys, but one contains the leader of Shadow Circuit. Help us find the correct vehicle to capture Shadow Circuit's leader!"

NEW YORK 395.054 Empire State	Massachusetts 209.867 The Spirit of America	VERMONT 380.917 Green Mountain State
PENNSYLVANIA 525.973 Keystone State	WISCONSIN 457.984 The Badger State	ILLINOIS 361.957 Land of Lincoln
HAWAII 465.987 ALOHA STATE	South Carolina 349.970 The Palmetto State	UTAH 414.844 The Great Salt Lake State
WASHINGTON 350.001 Evergreen State	THE DISTRICT OF COLUMBIA 449.999 Delaware	Vermont 504.814 Green Mountain State

The number on the plate rounds to 400 when rounded to the nearest hundred.

If you round the number to the nearest tenth, the digit in the tenths place will be a zero.

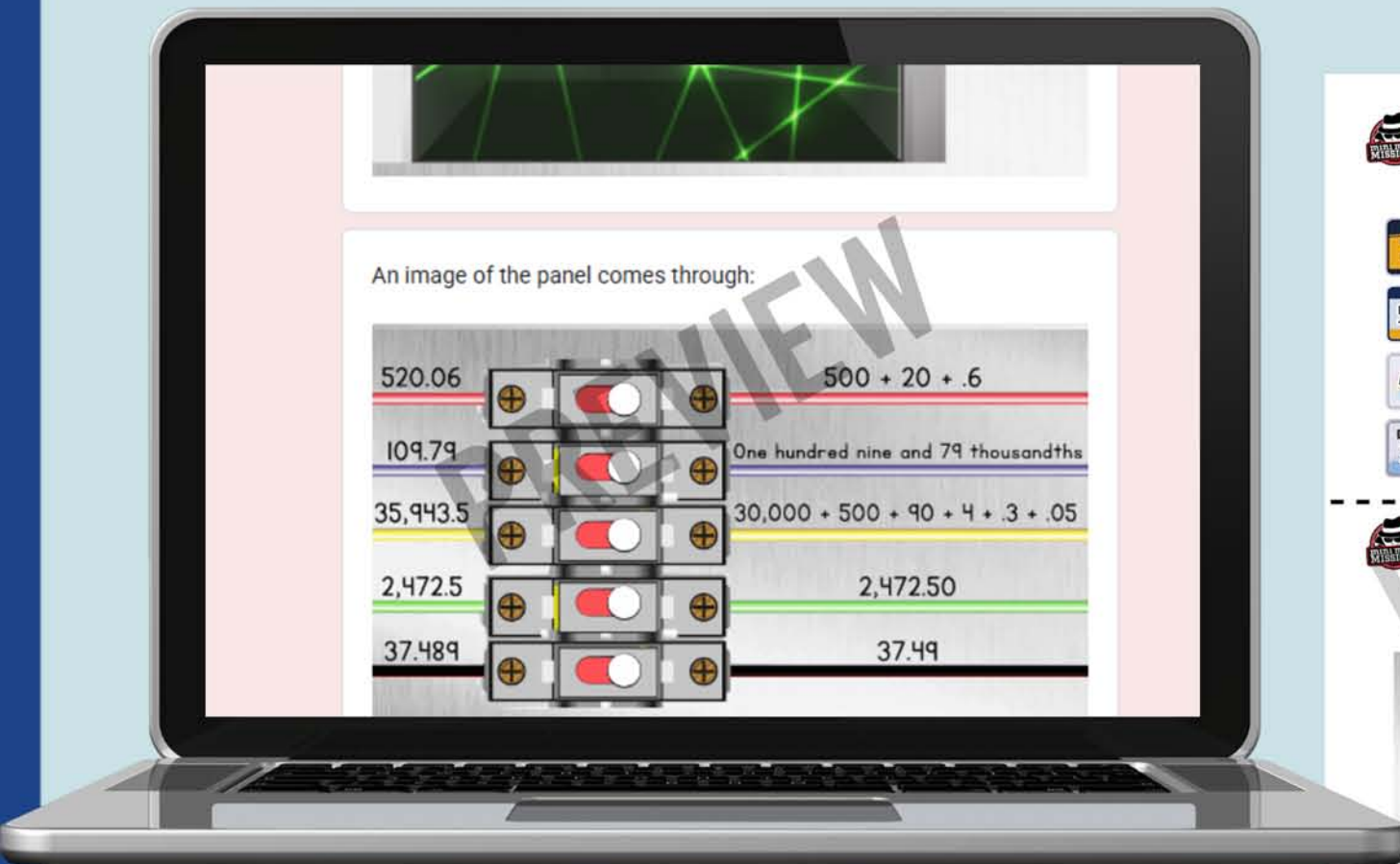
If you round the number to the nearest whole number (the ones place), the digit in the ones place will not be a zero.



CONFIDENTIAL

Secret Mission Themed Escape Room

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



Task 4: Capture the Leader!

"We are on our way to the elevator, but a group of twelve vehicles just left the compound. 11 of the vehicles are decoys, but one contains the leader of Shadow Circuit. Help us find the correct vehicle to capture Shadow Circuit's leader!" Tip: Cross out plates that don't fit each clue. You'll be left with only one plate.

NEW YORK	MASSACHUSETTS	MASSACHUSETTS
395.054	209.867	380.917
525.973	457.984	361.957
465.987	349.970	414.844
350.001	449.999	504.814

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Task 5: Disable the Lasers

"Good news! A member of your team has arrested the leader of Shadow Circuit." A voice comes through your earpiece as the field agents continue their job. "We are at the elevator, but we've got a problem," the team leader says. "The elevator is protected by lasers. One step inside and we will set off alarms. There's a panel with sliding switches that must turn the lasers off. Can you help us figure out which way to slide the switches?" Tip: Compare the numbers on the opposite wires using <, >, and = symbols.

520.06	500 + 20 + .6
109.79	One hundred nine and 79 thousandths
35,943.5	30,000 + 500 + 90 + 4 + .3 + .05
2,472.5	2,472.50
37.489	37.49

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Color, Black & White + Digital Option

Standards

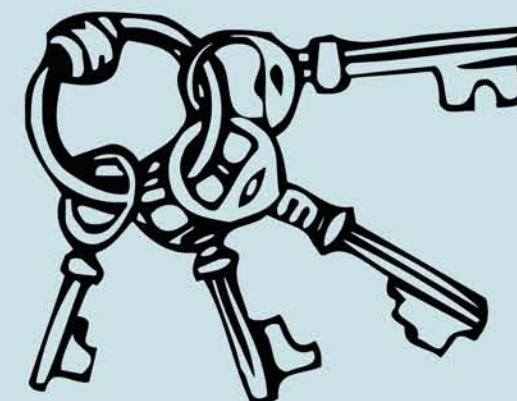
**5.NBT.A.1, 5.NBT.A.2,
5.NBT.A.3, 5.NBT.A.4**

5th Grade Math Skills

- **Rounding decimals to any place**
- **Comparing the value of decimal numbers to the thousandths written in different forms using $>$, $<$, and $=$**
- **Multiplying and dividing by powers of 10**
- **Understanding the value of a digit**
- **All 5.NBT.A standards**

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**
-  **8 Engaging Puzzles**



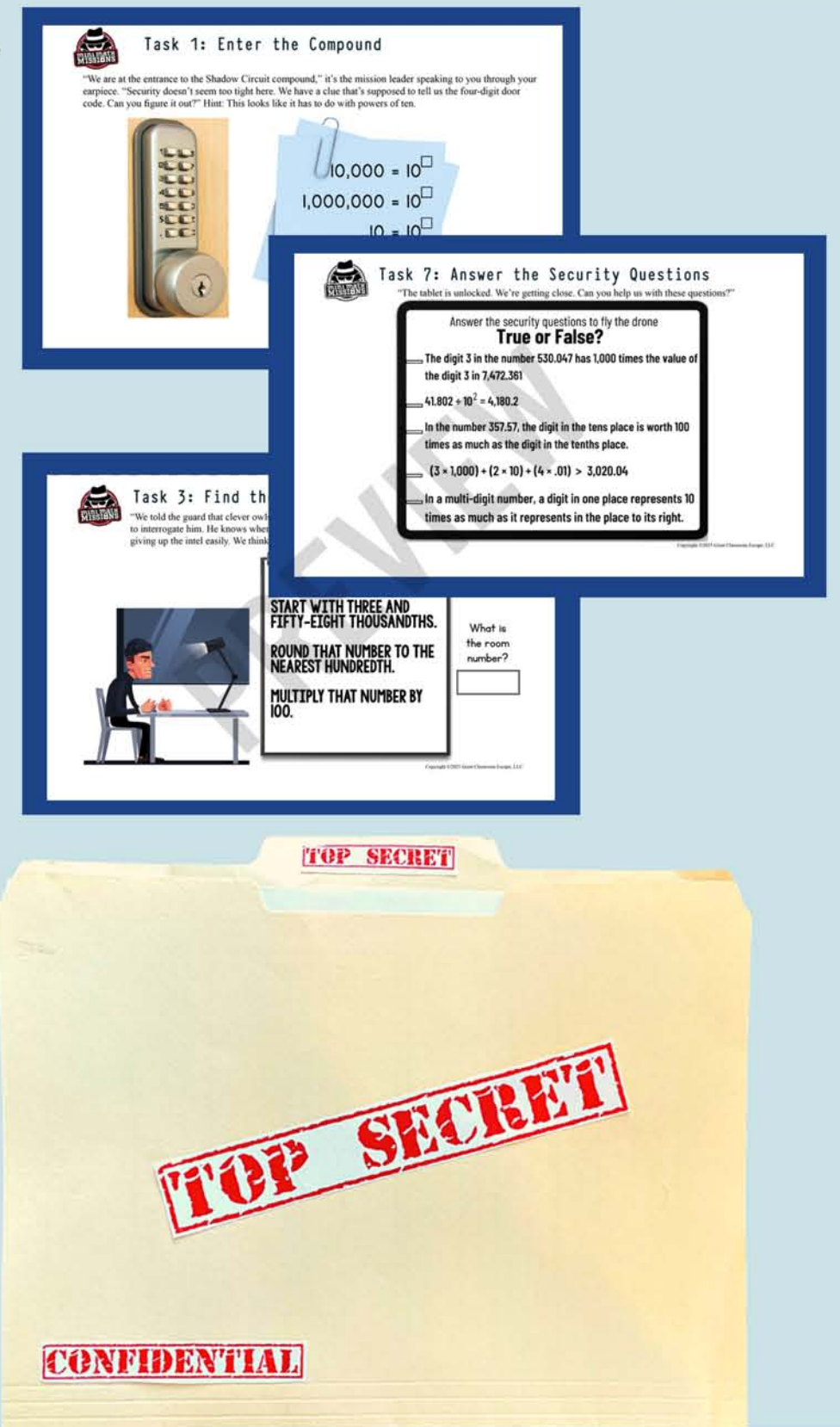
How it Works: Digital

- 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 (seven pages to print).
- 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 eight puzzles together as an escape room, or use each puzzle individually as a task card or exit ticket



Puzzle Preview



$$10,000 = 10^{\square}$$

$$1,000,000 = 10^{\square}$$

$$10 = 10^{\square}$$

$$1,000 = 10^{\square}$$

START WITH THREE AND
FIFTY-EIGHT THOUSANDTHS.

ROUND THAT NUMBER TO THE
NEAREST HUNDRETH

MULTIPLY THAT NUMBER BY
100.

YORK
.054
STATE

Massachusetts
209.867
The Spirit of America

Connecticut
380.917
Connecticut State

SYLVANIA
.973
one State

Nebraska
457.984
The Tree Planters State

Scenic IDAHO
361.957
FAMOUS POTATOES

HAWAII
.987
A STATE

South Carolina
349.970
FIRST FLIGHT STATE

UTAH
414.844
1896 • CENTENNIAL • 1996

INGTON
001
STATE

THE FIRST STATE
449.999
DELAWARE

Vermont
504.814
Green Mountain State



to the nearest tenth, the digit in the tenths place will be a zero.

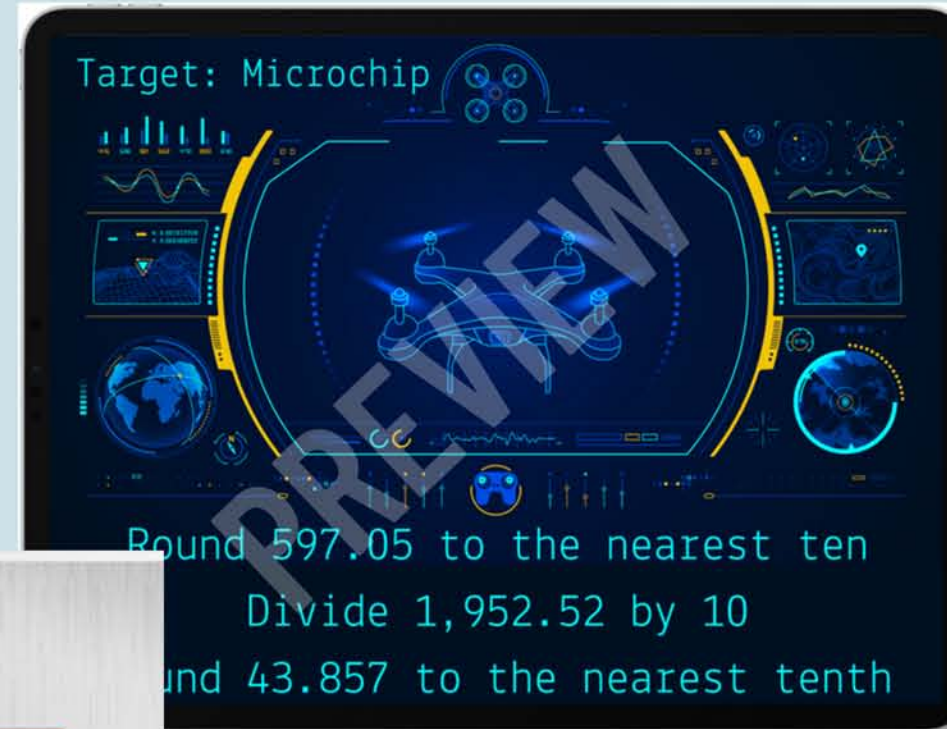
If you round the number to the nearest whole number (the ones place), the digit in the ones place will not be a zero.

Puzzle Preview



Here's the clue: "Follow the digit 7 to find the password."

	374.2	57.03	3.587	19.712	5.973
ones	S	H	O	R	T
tens	O	V	E	R	T
tenths	B	R	A	V	E
hundredths	R	A	N	G	E
thousandths	C	U	R	V	E



520.06				$500 + 20 + .6$
109.79				One hundred nine and 79 thousandths
35,943.5				$30,000 + 500 + 90 + 4 + .3 + .05$
2,472.5				$2,472.50$
37.489				37.49

to fly the drone.

se?

- ___ The digit 3 in the number 550.047 has 1,000 times the value of the digit 3 in 7,472.361
- ___ $41.802 \div 10^2 = 4,180.2$
- ___ In the number 357.57, the digit in the tens place is worth 100 times as much as the digit in the tenths place.
- ___ $(3 \times 1,000) + (2 \times 10) + (4 \times .01) > 3,020.04$
- ___ In a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right.

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