

SUBJECT: DESS E. MAL

OPERATION CAPTURE DESS E. MAL

5th
Grade

Differentiated

Decimal Place Value & Operations

Print or Digital Escape Room

Step 1:
Round 645.98 to the nearest GRAGU.

Step 2:
FHOGENPG
278.16 from your first answer.

Step 3:
Multiply your answer from step 2 by GJB.

Step 4:
NQQ 130.06 to your last answer.

Clue 5 WE ARE GETTING CLOSE TOP SECRET
This has to be the last door. There's a briefcase in front of the door with a note on it that says "I made some mistakes at first with my locking and ended up paying more. I had to master my understanding of place value." It has a rather unusual lock.
Mr. Mal has written all over this locked briefcase.

Roadblock ANOTHER ROOM, ANOTHER LOCKED DOOR TOP SECRET
You find a computer and a corkboard in the room. What a surprise! There is a locked door with a keypad in the room. This looks like a cipher. Substitute letters in the top row for ones in the bottom row, and the other way around. Use the computer to help decode the words on the corkboard. Then solve the four steps to find the door code.

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Step 1: _____
Step 2: _____
Step 3: _____
Step 4: Door code: _____

The Great CLASSROOM escape

Standards

5.NBT.A.1, 5.NBT.A.2,
5.NBT.A.3a, 5.NBT.A.3b,
5.NBT.A.4, 5.NBT.B.7

5th Grade Math Skills

Understand the value of a digit, round decimal numbers; add, subtract, & multiply decimals; powers of 10 & more!

Fast Facts



No prep digital version, click & go!



Low-prep black-and-white printable version



Escape Time ~30-60 minutes (long & short version included)



Best used in pairs or small groups



Digital requires internet connected device



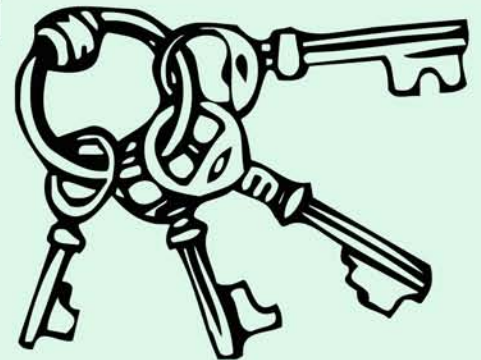
Self-Checking digital version



Virtual or in-person

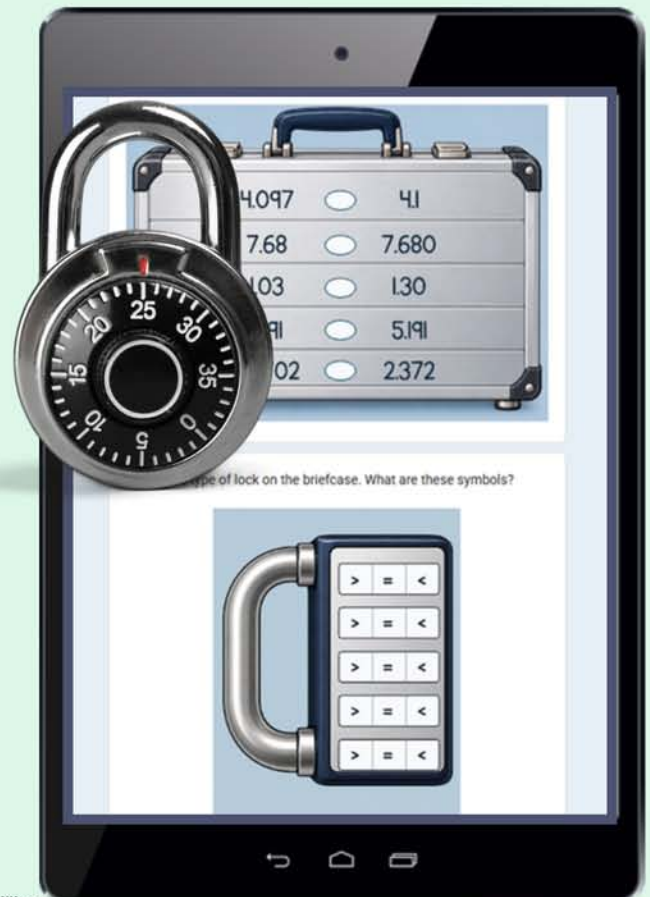
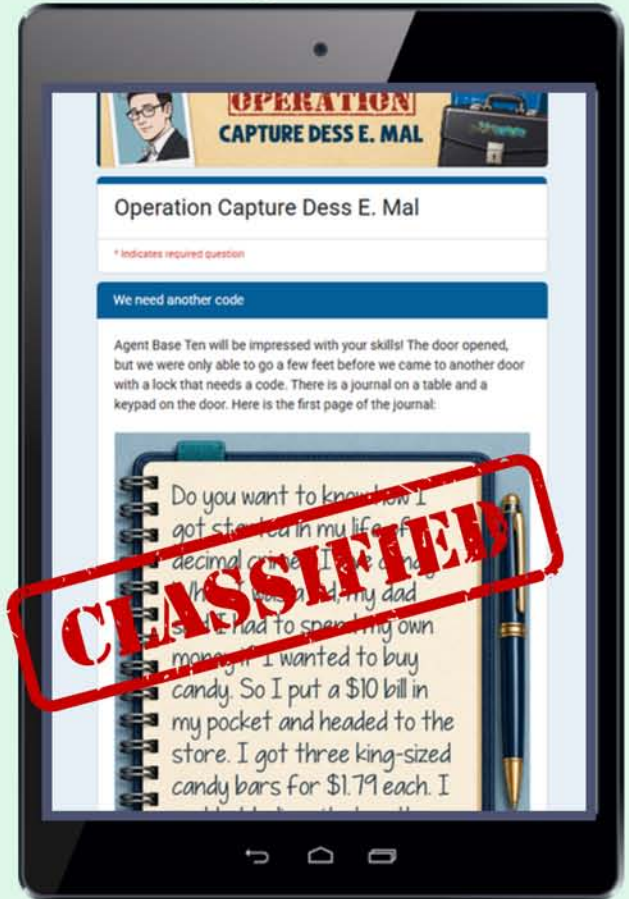


5-7 puzzles (there is a short & a long version of this escape room)



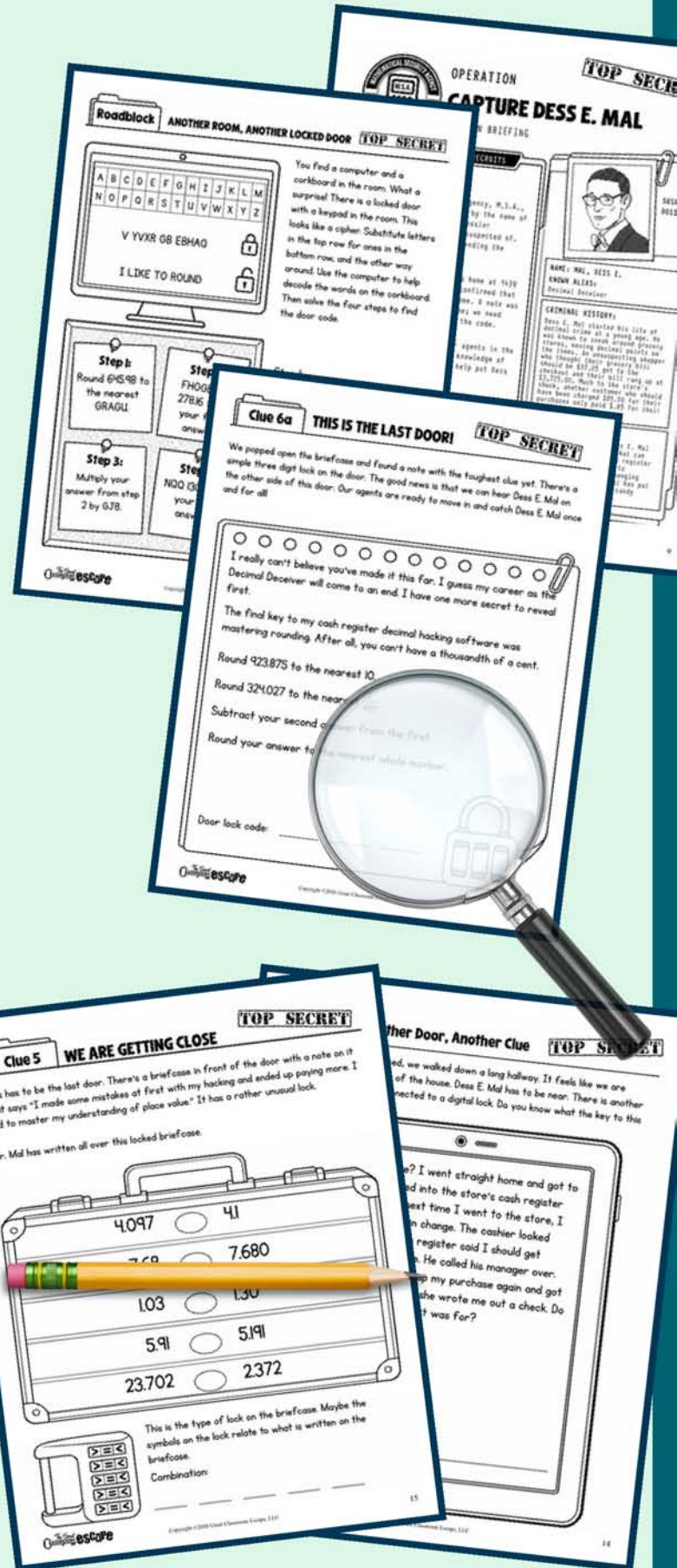
How it Works - Digital:

- 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.



How it Works - Print:

- Low prep!
- Print the mission document, clues, and success page.
- Give students the intro and clue 1 to begin
- When students solve a clue, they bring the answer to you.
- If the answer is correct, give the next clue.
- Continue until students solve the final clue.
- Use individually, in pairs, in small groups, or as a whole class.
- Great for centers!



Puzzle Preview

So you found my home. I think I deserve a last bit of fun with decimals before you capture me. I'm locked in my home. Can you open all of the doors to find me?

I'll make this one easy by telling you all of the digits in the code. You'll have to rearrange the digits to give you some clues.

The digit 2 in the code has a value that is 100 times greater than the digit 2 in 367.25.

The digit 3 in the code has a value that is $\frac{1}{10}$ the value of the digit 3 in 367.25.

The digit 7 in the code has a value that is $\frac{1}{10}$ the value of the digit 7 in 367.25.

The digit 5 in the code has a value 10,000 times greater than the digit 5 in 367.25.

The digit 6 in the code has a value that is $\frac{1}{100}$ the value of the digit 6 in 367.25.



$$(5 \times 10,000) +$$

$$(8 \times 100) +$$

$$(3 \times 10) +$$

$$\left(9 \times \frac{1}{10}\right) +$$

$$\left(7 \times \frac{1}{100}\right) =$$

↓	A	B	C	D	E	F	G
↑	N	O	P	Q	R	S	T

V YVXR GB EE

I LIKE TO RO

Step 1:

Round 645.98 to the nearest GRAGU

Step 2:

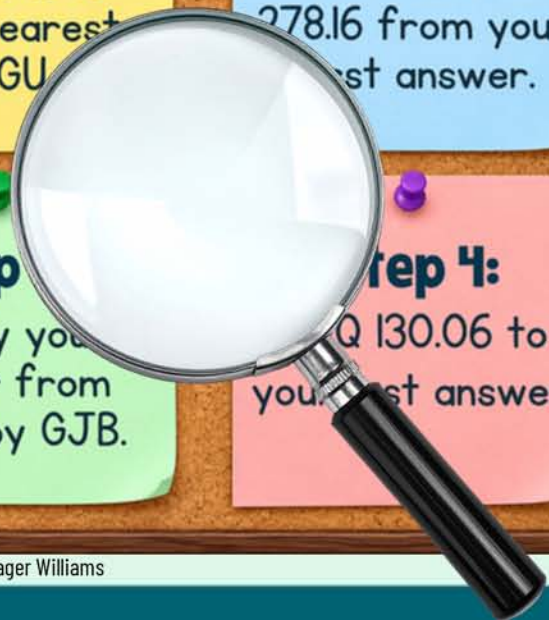
FHOGENPG 278.16 from your best answer.

Step 3:

Multiply your answer from step 2 by GJB.

Step 4:

Q 130.06 to your best answer.



Puzzle Preview

Do you want to know how I got started in my life of decimal crime? I love candy. When I was a kid, my dad said I had to spend my own money if I wanted to get candy. So I put a dollar in my pocket and headed to the store. I got three candy bars for \$1.00. The cashier couldn't believe it when the cashier told me the

\$4.63 in change? I went straight home and got to hacking. I hacked into the store's cash register software. The next time I went to the store, I didn't get \$4.63 in change. The cashier looked shocked when the register said I should get 4.63×10^4 in change. He called his manager over. The manager rang up my purchase again and got the same result. So she wrote me a check for \$46,300. Do you know how much I was for?

I handed my \$10 bill over to the cashier for those three king-sized candy bars. As she counted out my change, a plan came into my mind. Do you want to know how much change I was supposed to get? That will make me very happy.

My number has hundreds, tens, ones, tenths, hundredths, and thousandths. The digits 0, 2, 3, 5, 8, and 9 are each used once.

Clue 1: If you round my number to the nearest hundred, you get 400. (This tells you all you need to figure out what number is in the hundreds

The digit in the tens place is even. (Based on the first clue, now you know the digit in the tens

If you round my number to the nearest hundred, the digit in the hundredths place becomes the digit in the tenths place, and the digit in the thousandths place goes in the hundredths place.)

the ones place.

Read through all of the clues again. You have all the information you need to find my number!

4.097

4.1

7.68

7.680

1.03

130

5.91

23.702

TOP SECRET

One Mission Two Levels of Challenge

Both versions follow the same storyline and share most of the same puzzles, making it easy to offer different levels of challenge within your classroom. Version B adds an extra cipher puzzle and a more challenging final logic puzzle for students ready to stretch their reasoning skills.

Version A Highlights

- Shorter mission with six main clues
- Practices decimal place value, expanded form, comparison, rounding, and operations
- Finishes with a step-by-step rounding challenge

Version B Highlights

- Includes the same core decimal puzzles
- Adds a cipher challenge with four connected math steps
- Finishes with a more challenging decimal logic puzzle
- Offers additional practice and deductive reasoning



TOP SECRET

Optional Printable Pages



If your mission is a success, the M.S.A. will give you a secret pass phrase to tell your teacher. Record it here, then present this form to your teacher.



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escape

your mission is a success, the M.S.A. will give you a secret pass phrase to tell your teacher. Record it here, then present this form to your teacher.

escape



OPERATION

CAPTURE DESS E. MAL

MISSION BRIEFING

TOP SECRET

ATTENTION: M.S.A. RECRUITS

Dear Recruits:

The Mathematical Security Agency, M.S.A., has been tracking a suspect by the name of Dess E. Mal. The attached dossier describes the crimes he is suspected of. We need your help in apprehending this suspect.

Our agents are surrounding the home of Dess E. Mal. Place Value Place Value confirmed that Dess E. Mal is in the home. A note was found in the door to the home, asking for your assistance to decipher the code.

Thank you for your help. Our agents in the field are depending on your knowledge of place value and decimals to help put Dess E. Mal behind bars.

Sincerely,
Agent Base Ten

CONFIDENTIAL



SUSPECT DOSSIER

NAME: Dess E. Mal
KNOWN ALIASES: decimal Decider
CRIMINAL HISTORY:
Dess E. Mal started his life of decimal crime at a young age. He was known to sneak around grocery stores, moving decimal points on the items. An unsuspecting shopper who thought their grocery bill should be \$37.25 got to the checkout and their bill rang up at \$3,725.00. Much to the store's shock, another customer who should have been charged \$85.00 for their purchases only paid \$.85 for their items.

WANTED FOR:

It is suspected that Dess E. Mal has developed software that can hack into a store's cash register system. This allows Mal to manipulate prices. By changing place values, Dess E. Mal has caused many stores, especially candy stores, out of business.

Dossier & Secret Mission Info

The Great Classroom **escape**

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Success Signs

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DECIMAL DETECTIVE!

The Great **CLASSROOM** **escape**

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