



Dividing Decimals by Whole Numbers

5th
Grade
Math
5.NBT.B.7

by
**The Great
CLASSROOM
escape**

Math Mission Escape Room

TOP SECRET

Task 2: Access the Locker

You head straight from the airport to the café. You get a suspicious look when you order the strange combination of cake and kale. Your food arrives, and you discover a note taped to the bottom of your plate. You look around and discover a bay of lockers near a ferry dock.

I left something for you in a locker. You can find the right locker to open by dividing eight and forty-six hundredths by nine.

The combination has three numbers:

First number: Thirty-three hundredths divided by eleven

Second number: Six

I like to think of the

Third number: ninety

Task 5: Activate the Tracker

You find your seat and discover a microchip under the armrest. Now it's time to send in a team to apprehend Cobra. You need to activate the tracker that was in the envelope with the payment. You need to enter the pass code into an app. Figure out the two word pass code! It looks like you need to figure out an alphabet cipher. Finish the key and find the pass code!

Two-Word Tracker Pass Code:

$3 \overline{)57}$ $4 \overline{)64}$ $10 \overline{)25}$

$9 \overline{)18}$ $9 \overline{)09}$ $8 \overline{)56}$

A	B	C	D	E	F	G	H	I	J	K	L	M
.01	.02	.03										
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
										.24	.25	.26

What is the code?

Task 3: Arranging the Exchange

You dial in the combination, and the locker pops open. Inside is a single item - a cell phone.

Welcome to Australia. Follow these instructions carefully and we will make a clean exchange.

Board the next ferry. Find my partner and hand the payment over. They will give you something in return.

Make sure you give the payment to the correct person. Be careful who you trust.

How do I know who to trust?

Say: $5.52 \div 4$
You'll get the reply: $8.82 \div 3$

1. ARE
2. COCODILES
3. KOALAS
4. TUCHO
5. NOT
6. BRIGHT
7. WINDAG
8. NEVER
9. KANGAROOS
0. DANGEROUS
* QUITE

What do you say?

What reply should you get?

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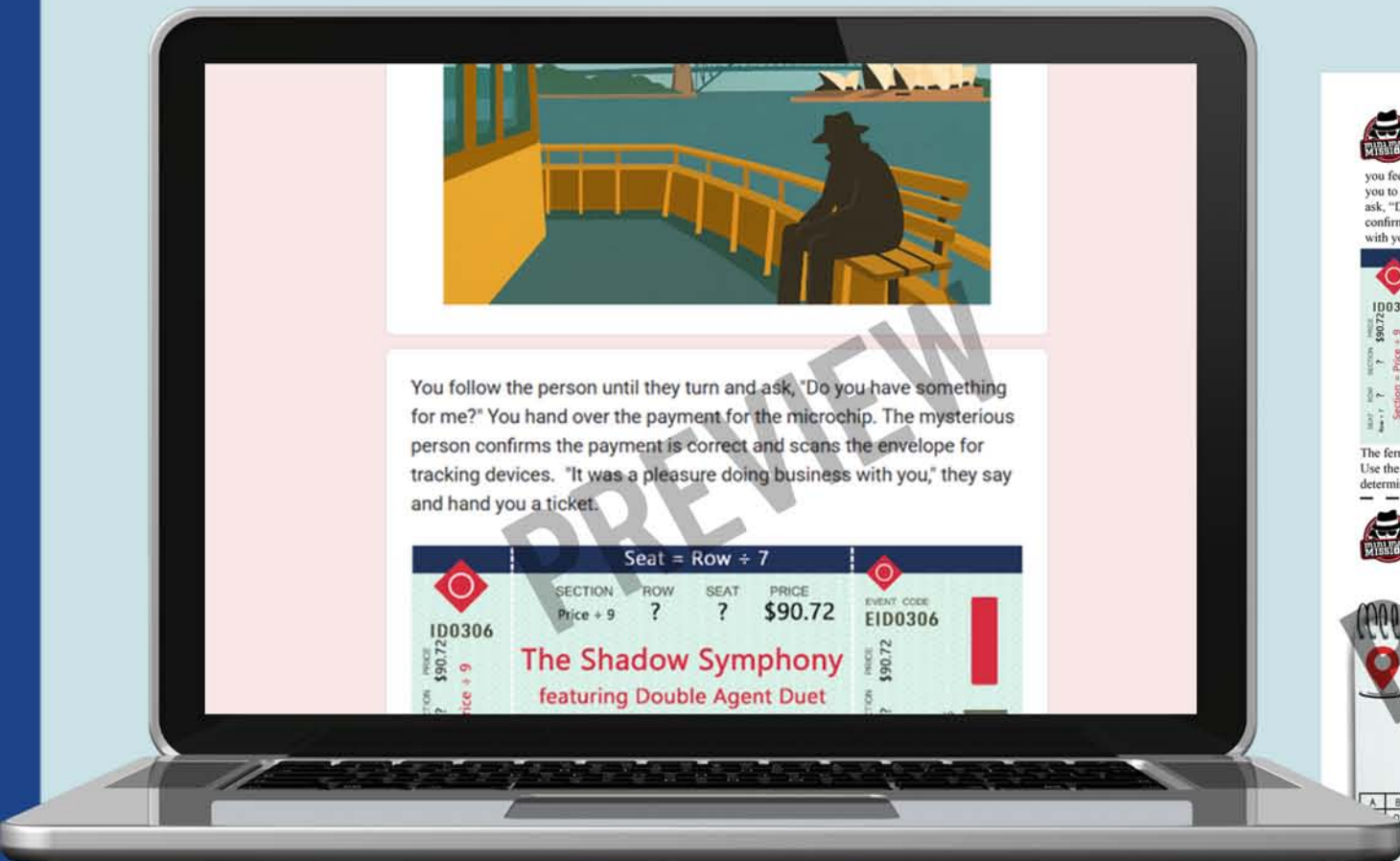
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										.24	.25	.26



CONFIDENTIAL

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.



Task 4: Making the Payment

You board the ferry and approach someone sitting on a bench. "Koalas are not dangerous," you say with as much confidence as you can. The person gives you an odd look and walks away. Suddenly, you feel a tap on your shoulder and hear someone say, "You are quite right." They walk away, beckoning for you to follow. This isn't Cobra, but someone who must work for her. You follow the person until they turn and ask, "Do you have something for me?" You hand over the payment for the microchip. The mysterious person confirms the payment is correct and scans the envelope for tracking devices. "It was a pleasure doing business with you," they say and hand you a ticket.

Seat = Row ÷ 7

SECTION	ROW	SEAT	PRICE	EVENT CODE
Price + 9	?	?	\$90.72	EID0306

The Shadow Symphony
featuring Double Agent Duet
Sydney Opera House 7:00 p.m.

ADMIT ONE
THIS TICKET IS NON-TRANSFERABLE
Row = Section + 4

The ferry is returning to the dock.
Use the clues on the ticket to determine where your seat is.

Section Row Seat

Task 5: Activate the Tracker

You find your seat and discover a microchip under the armrest. Now it's time to send in a team to apprehend Cobra. You need to activate the tracker that was in the envelope with the payment. You need to enter the pass code into an app. Figure out the two word pass code! It looks like you need to figure out an alphabet cipher. Finish the key and find the pass code!

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3/.57 4/.64 10/25

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Color, Black & White + Digital Option

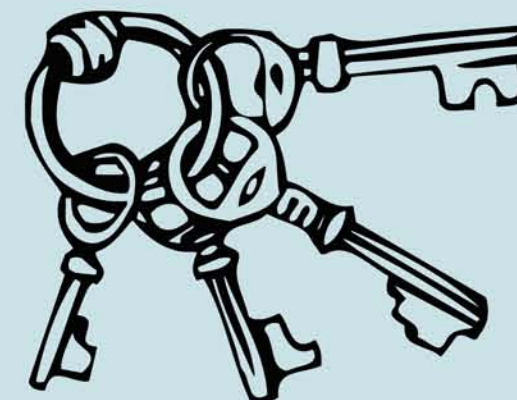
Standard
5.NBT.B.7

5th Grade Math Skills

- **Dividing decimals by whole numbers**
- **Suggested strategies include using place value knowledge, base ten blocks, or number lines**
- **Most divisors are single digit whole numbers**
- **Dividends with decimals to the hundredths**

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**
-  **5 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 five puzzles together as an escape room, or use each puzzle individually as a task card or exit ticket



Puzzle Preview

Go straight to the café at the Circular Quay ferry terminal. Follow these directions precisely. Change the letters into digits and decimals, then solve the problems. Next, change the digits and decimals in your solutions back into letters.

S)NCAD E)DALE T)ART K)CCATE

.	1	2	3	4	5
A	C	T	K	N	E

I left something for you in a locker. You can find the right locker to open by dividing eight and forty-six hundredths by nine.

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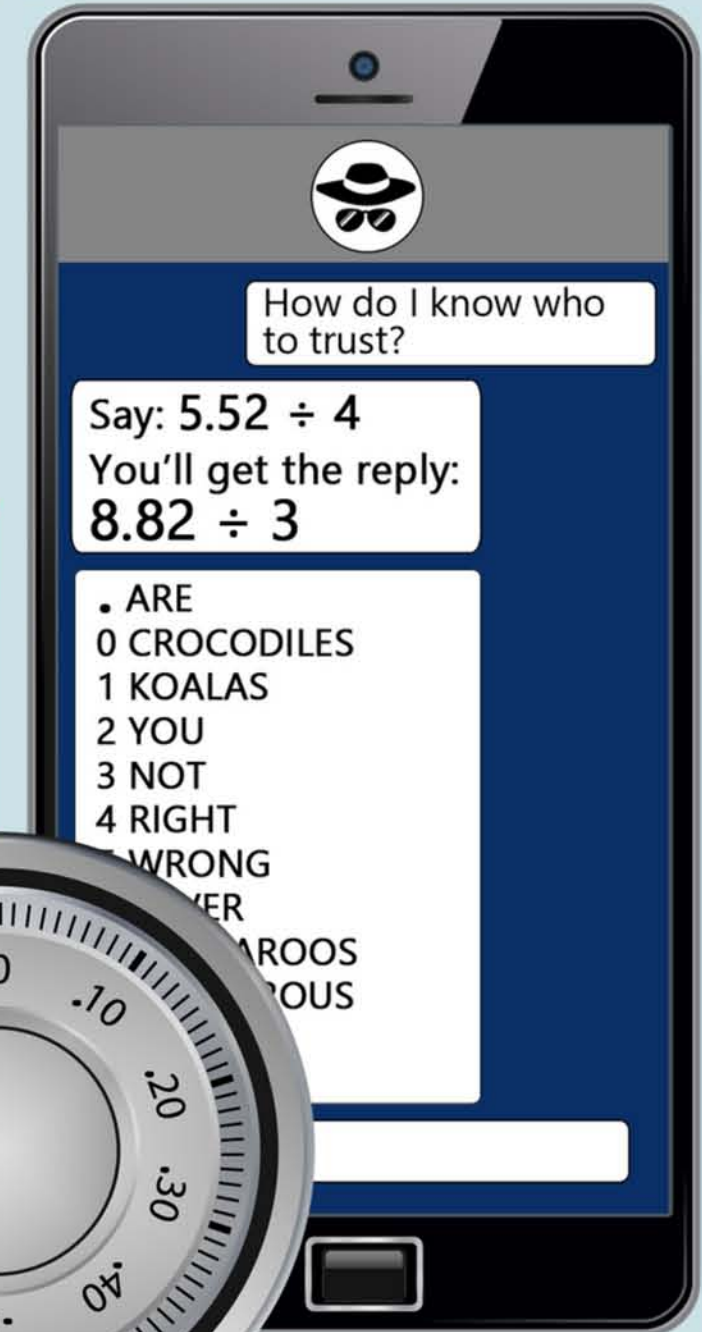
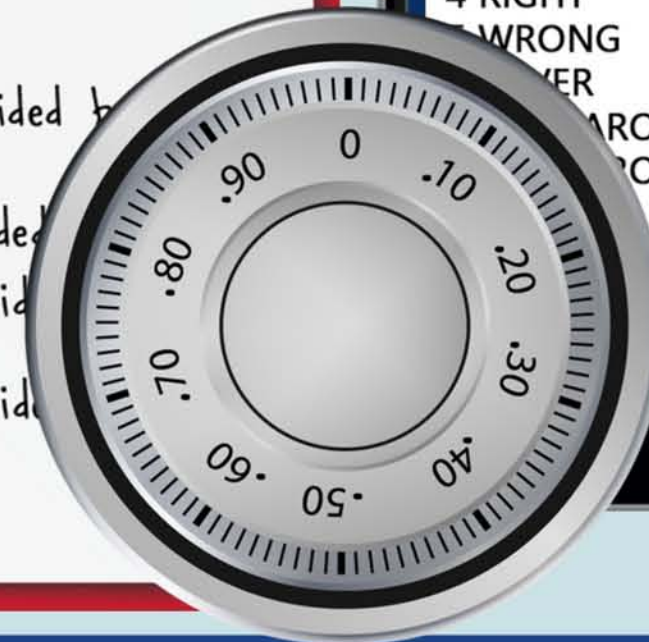
First number: Thirty-three hundredths divided by

Second number: Six and four tenths divided by

I like to think of this as 64 tenths divided by

Third number: ninety-eight hundredths divided by

CLASSIFIED



Puzzle Preview



SEAT ROW SECTION PRICE
Row ÷ 7 ? ? \$90.72
Section = Price ÷ 9

Seat = Row ÷ 7

SECTION	ROW	SEAT	PRICE
Price ÷ 9	?	?	\$90.72

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EVENT CODE
EID0306

PRICE
\$90.72

SECTION ?

9765




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