5th Grade

Converting Measurement & Interpreting Data
Digital Escape Room

When measuring ingredients, you have to be precise.
Knowing how much I need would certainly be nice.
One thousand grams in a kilogram is what you'll need to know.
Convert the measurements to complete the table,
and you'll be good to go.

Kilograms	Grams
.03	
	19,000
.008	

These gigantic containers are not drawn to scale
Order them from least to greatest to continue on the trail.
If you get it wrong, more problems you will find.
Here are a few clues to help you make up your mind.

54 cups   4 gallons   15 quarts

2 cups = 1 pint
2 pints = 1 quart
4 quarts = 1 gallon

5th Grade Math Skills

Convert between metric units

Convert between U.S. customary units

Interpret line plots & more!

Fast Facts

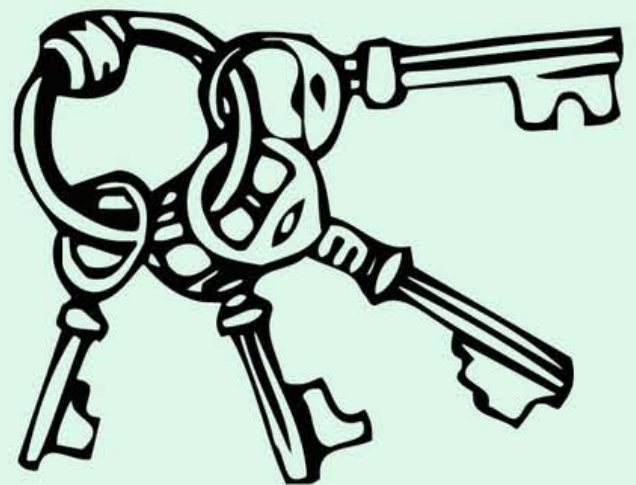✂ No prep, click & go! Optional printable pages

🕐 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.
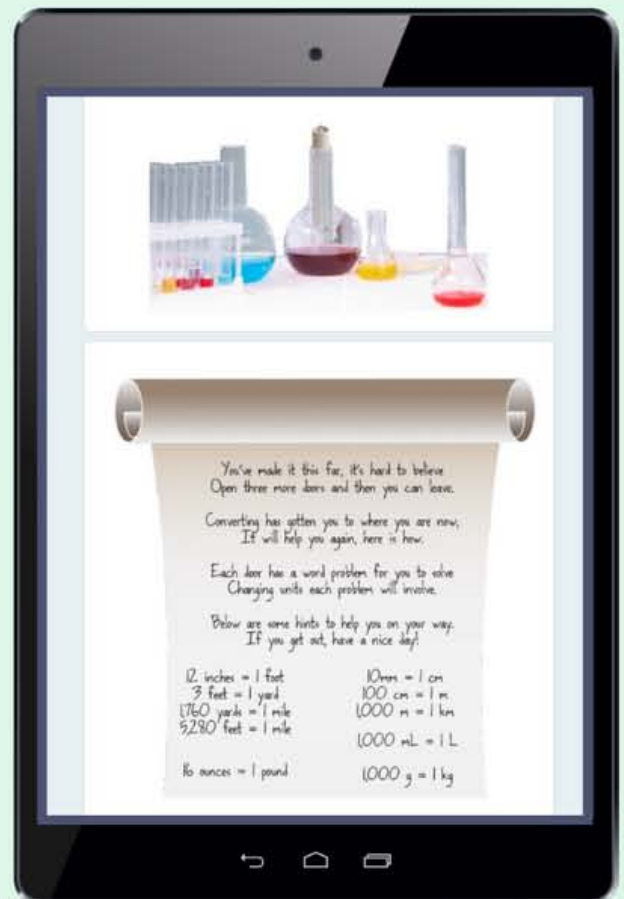
Puzzle Preview

These gigantic containers are not drawn to scale
Order them from least to greatest to continue on the trail
If you get it wrong, more problems you will find
Here are a few clues to help you make up your mind:

54 cups

4 gallons

15 quarts

2 cups = 1 pint
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Knowing how much I need would certainly be nice.
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and you'll be good to go.

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.03	
	19,000
.008	

There are 12 steps in my new experiment. I've plotted the length of time each step takes to the nearest quarter hour. Would you be so kind as to set my timer for me so I know when my experiment should be finished?

0   1   2   3   4

LENGTH OF TIME EACH STEP OF THE EXPERIMENT TAKES MEASURED TO THE NEAREST QUARTER HOUR.

Puzzle Preview

You've made it this far, it's hard to bel
Open three more doors and then you can

Converting has gotten you to where you ar
It will help you again, here is how.

Each door has a word problem for you to
Changing units each problem will invol

Below are some hints to help you on your
If you get out, have a nice day!

12 inches = 1 foot	10mm = 1 cm
3 feet = 1 yard	100 cm = 1 m
1,760 yards = 1 mile	1,000 m = 1 km
5,280 feet = 1 mile	
	1,000 mL = 1 L
16 ounces = 1 pound	1,000 g = 1 kg

I started with 7 kilograms
of my mix.

My huge lab rat named Clover
weighed 2 pounds 6 ounces.
He loves running wild and
constantly pounces.
But then one day he got into

Today you mixed a formula
to make hair grow.
Once mine reached all the
way down to my toe.

If you start with one
yard of hair and grow six
inches each hour,
how many feet will you
have after 24 hours in a
tower?

The secret formula is almost complete! I have
carefully measured my ingredients. I've plotted the
volume of liquid in each test tube to the nearest
quarter of an ounce. All that I need to do now is
mix them all together, then divide them equally
between two flasks. Now to calculate how
liquid I will need for each flask...

VOLUME OF SECRET FORMULA INGREDI
IN FLUID OUNCES

That wasn't the right order,
You'll have to try again.
But first solve this problem
knowing the number of mm in a
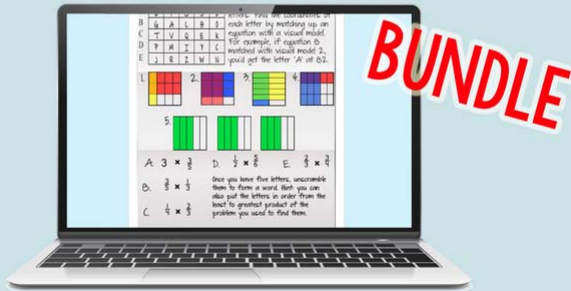cm is ten.

65mm=___ cm

The buttons were pushed in an
incorrect order.
Now you need to find how many cups
are in one gallon and a quarter.

If 16 cups are in one gallon,
A quarter gallon is just a few more.
Enter the total number of cups now,
then try again to open the door.

You May Also Like

The Great **Classroom Escape**
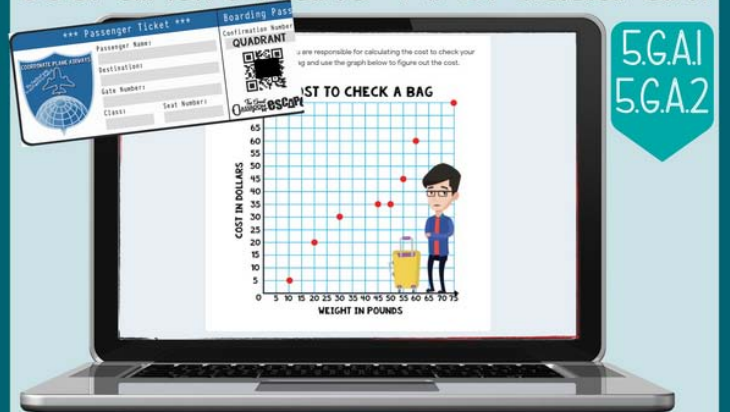## Operations with Fractions
DIGITAL ESCAPE ROOM!
BUNDLE

5TH GRADE MATH CONTENT
Numbers & Operations – Fractions Standards
Easy to implement! Automated by Google Forms™!

The Great **Classroom Escape**
Coordinate Plane- First Quadrant
5.G.A.1
5.G.A.2

COST TO CHECK A BAG

*** Passenger Ticket ***

Escape the Airport
DIGITAL ESCAPE ROOM!

The Great **Classroom Escape**
Operation Restore Order
5.O.A.A.1
5.O.A.A.2

TOP SECRET

$9 + 9 ÷ 3 + 6 = 10$

$9 + 9 ÷ 3 + 6 = 12$

$16 ÷ 4 × 2 + 2 = 4$

CONFIDENTIAL

Order of Operations
DIGITAL ESCAPE ROOM!

The Great **Classroom Escape**
Volume
5th Grade Measurement & Data

THIS TIME Z WILL EQUAL 1 AND A WILL BE 26. DECODE THIS WORD BY FINDING THE VOLUME OF THESE BRICKS.

DIGITAL ESCAPE ROOM!

The Great
Classroom Escape

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