



4th
Grade
Math

Operation: Unlock the Oven

Digital or Print Escape Room


A holiday hating villain known as the Thanksgiving Thwarter has snuck into your home and locked the oven with Thanksgiving dinner inside. The fate of the turkey, pies, and casseroles depends on your ability to solve the villain's puzzles and save Thanksgiving! Can you find the combination to each of the oven locks and get the food out in time?

Standards

4.NBT.A.2, 4.NBT.A.3,
4.NBT.B.6, 4.OA.A.1,
4.OA.A.3

4th Grade Math Skills
Divide 3 digits by 1 digit, interpret
multiplicative comparisons, solve
multi-step word problems, & more!


Fast Facts


 No prep, click & go! Optional printable pages

 Escape Time ~45-60 minutes

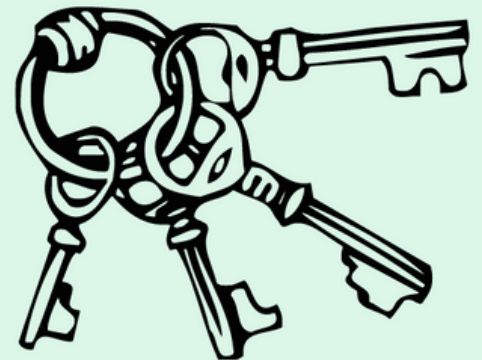
 Recommended to complete in small groups

 Requires internet connected device

 Self-Checking

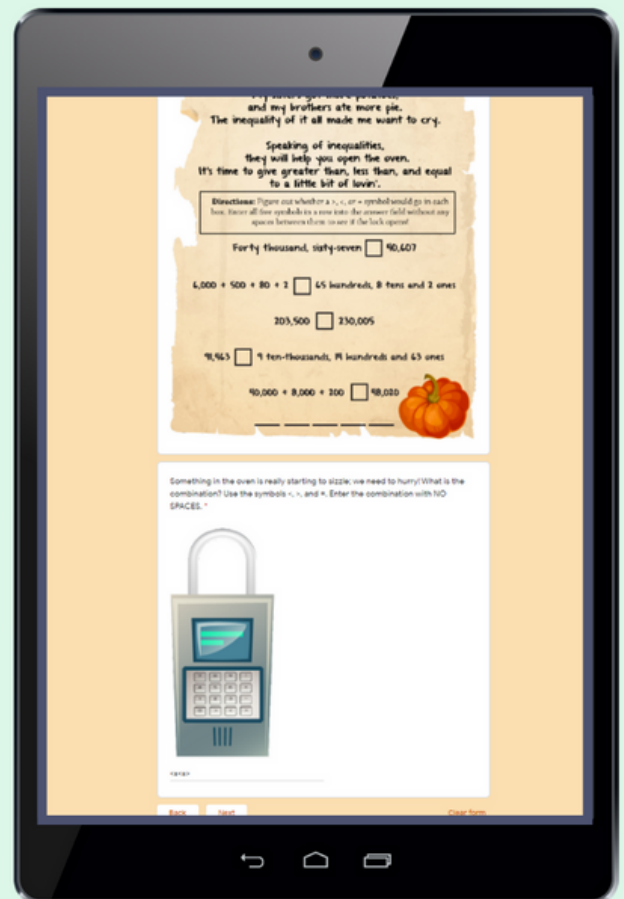
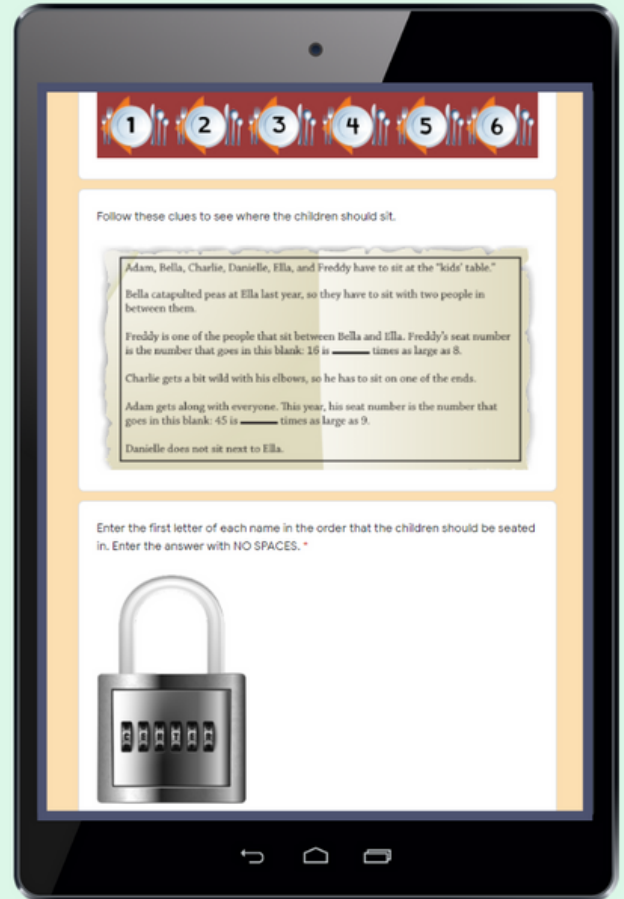
 Virtual or in-person

 Five 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.



How it Works (Print):


- There are seven pages to print (not including optional success signs). Hand students the backstory and clue 1. Once they return clue 1 to you, check the answer and give them clue 2, then 3, 4, and 5. Finally hand out the success page!

Lock Number 1: Three Digit Combination
What's My Number?




A three digit number is the combination to one lock. Three clues can help you find it before the turkey burns hard as a rock.
Drawing a number line can help you too.
Enter the number when you are through!

Lock Number 3: Three Number Combination
Planning a Feast




When planning a feast, math is a big deal. You'll need to use it to save this Thanksgiving meal! To help solve these problems and be on your way, you may need to draw an area model or an array. Fill in each answer on the lines below. After this there are just two locks to go!

Lock Number 4: Digital Lock
Inequalities



I became the Thanksgiving Thwarter because things were so unfair. I was the youngest of six kids and never got my fair share. My sisters got more potatoes, and my brothers ate more pie. The inequality of it all made me want to cry.
Speaking of inequalities, they will help you open the oven. It's time to give greater than, less than, and equal to a little bit of lovin'.


Lock Number 2: Six Letter Combination
Who Sits Where?



To solve this puzzle, here's what you must do:
Figure out who should sit next to who.
The kids will be lined up, all in a row.
Figure out where each child should go.
Find the right order, then use the first letter of each name
To form the lock combination, isn't this a fun game!

1 2 3 4 5 6

Lock Number 5: Find the Key
Find the Quotient



I don't smell anything burning yet, You may open the oven before it's too late, don't fret! One last lock, and this one needs a key.
Find the missing quotients to learn where it might be!

Directions: Find each quotient. Below each answer you will see a letter. Fill in these letters into the boxes with the matching numbers (some will be used more than once) to spell out the location of the missing key!

Directions: Compare the quantities and put a <, >, or = symbol in the box combination to this lock.

oven 40,607

hundreds, 8 tens and 2 ones

30,005

hundreds and 63 ones

48,020

Adam, Bella, Charlie, Danielle, Ella, and Freddy have to sit at the "kids' table."
Bella catapulted peas at Ella last year, so they have to sit with two people in between them.
Freddy is one of the people that sit between Bella and Ella. Freddy's seat number is the number that goes in this blank: 16 is _____ times as large as 8.

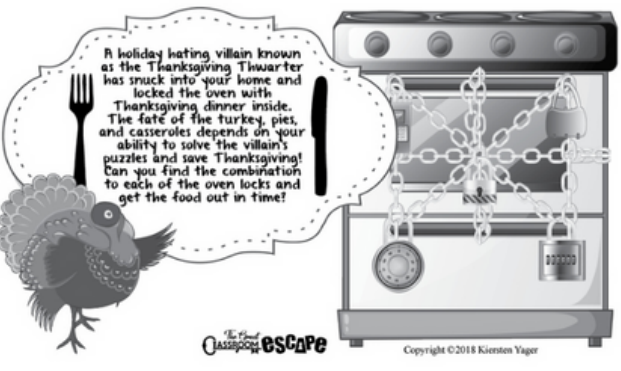
272 ÷ 8 = O
105 ÷ 3 = K
248 ÷ 8 = L
162 ÷ 6 = V

222 ÷ 6 = I
231 ÷ 7 = M
195 ÷ 5 = T

324 ÷ 9 = E

Names: _____

Operation: Unlock the Oven to Save Thanksgiving!




A holiday hating villain known as the Thanksgiving Thwarter has struck into your home and locked the oven with Thanksgiving dinner inside. The fate of the turkey, pies, and casseroles depends on your ability to solve the villain's puzzles and save Thanksgiving! Can you find the combination to each of the oven locks and get the food out in time?

31 34 34 35

34 27 36 47

HAPPY



Thanksgiving

You did it! You unlocked the oven and saved Thanksgiving dinner. Happy Thanksgiving!

Digital Puzzle Preview

A three digit number is the combination to one lock. Three clues can help you find it before the turkey burns hard as a rock.

Drawing a number line can help you too,
Enter the number when you are through!

Rounding my number to the nearest hundred,
you get 1,000.

If you round it to the nearest ten, you get
950.

The number of ones in my number is greater
than three.



Adam, Bella, Charlie, Danielle, Ella, and Freddy have to sit at the “kids’ table.”

Bella catapulted peas at Ella last year, so they have to sit with two people in between them.

Freddy is one of the people that sit between Bella and Ella. Freddy’s seat number is the number that goes in this blank: 16 is _____ times as large as 8.

Charlie gets a bit wild with his elbows, so he has to sit on one of the ends.

Adam gets along with everyone. This year, his seat number is the number that goes in this blank: 45 is _____ times as large as 9.

Danielle does not sit next to Ella.

Sample Puzzles

Third number in the combination:

You can never have too many
There are 8 rolls per package
year I bought 12 packages
How many rolls is

First number in the combination:

I baked a corn casserole
rectangular dish. I cut
rows. Each row had 8 pieces
half of the corn casserole
eaten. How many pieces are

Second number in the combination:

This year, there will be 18 adults
and 14 children at my house for
Thanksgiving. They will each eat one
piece of pie. Each pie is cut into 8
pieces. How many pies will I need to
feed all of these people?

I became the Thanksgiving Thwarted
because things were so unfair.
I was the youngest of six kids
and never got my fair share.



My sisters got more potatoes,
and my brothers ate more pie.

The inequality of it all made me want to cry.

Speaking of inequalities,
they will help you open the oven.
It's time to give greater than, less than, and equal
to a little bit of lovin'.

Directions: Figure out whether a >, <, or = symbol would go in each box. Enter all five symbols in a row into the answer field without any spaces between them to see if the lock opens!

Forty thousand, sixty-seven 40,607

$6,000 + 500 + 80 + 2$ 65 hundreds, 8 tens and 2 ones

203,500 230,005

91,463 9 ten-thousands, 14 hundreds and 63 ones

$40,000 + 8,000 + 200$ 48,020



Directions: Find each quotient. Below each answer you will see a letter. Fill in these letters into the boxes with the matching numbers (some will be used more than once) to spell out the location of the missing key!

$$272 \div 8 = \frac{\quad}{\quad} \quad \text{O}$$

$$222 \div 6 = \frac{\quad}{\quad} \quad \text{I}$$

$$324 \div 9 = \frac{\quad}{\quad} \quad \text{E}$$

$$105 \div 3 = \frac{\quad}{\quad} \quad \text{K}$$

$$231 \div 7 = \frac{\quad}{\quad} \quad \text{M}$$

$$195 \div 5 = \frac{\quad}{\quad} \quad \text{T}$$

$$248 \div 8 = \frac{\quad}{\quad} \quad \text{L}$$

$$270 \div 9 = \frac{\quad}{\quad} \quad \text{H}$$

$$423 \div 9 = \frac{\quad}{\quad} \quad \text{N}$$

$$162 \div 6 = \frac{\quad}{\quad} \quad \text{V}$$

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31

34

34

35

--	--

37

47

--	--	--

39

30

36

--	--	--	--

34

27

36

47

--	--	--	--

33

37

39

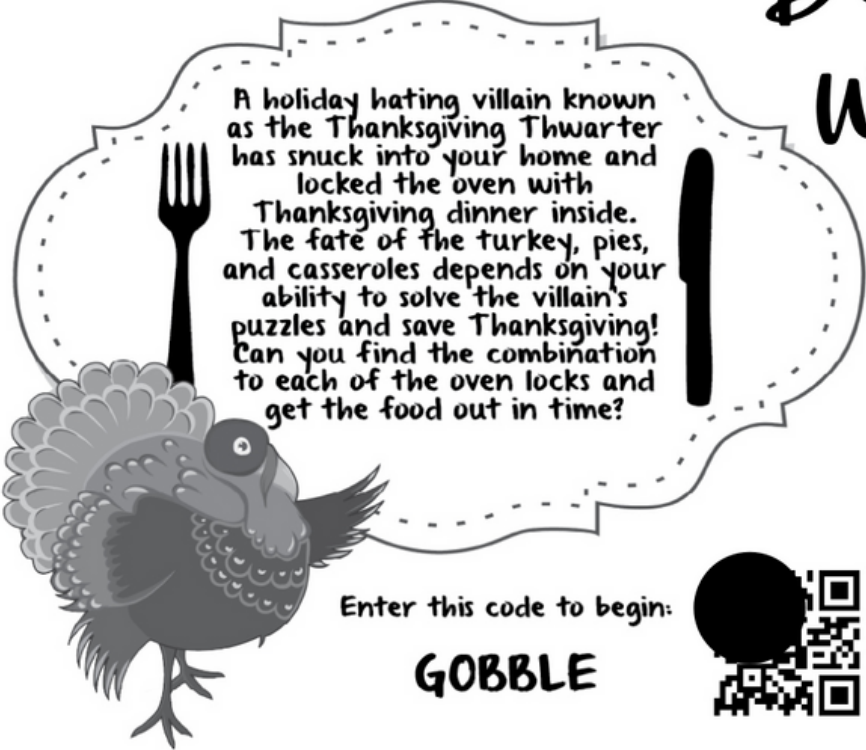
39

Optional Printable Pages

Backstory with QR code


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8



A holiday hating villain known as the Thanksgiving Thwarter has snuck into your home and locked the oven with Thanksgiving dinner inside. The fate of the turkey, pies, and casseroles depends on your ability to solve the villain's puzzles and save Thanksgiving! Can you find the combination to each of the oven locks and get the food out in time?

Enter this code to begin:
GOBBLE



Success Signs

**WE SAVED
THANKSGIVING!**

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ESCAPE**

23
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Operation Save Summer Vacation

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4TH GRADE MATH CONTENT

4.OA.B.4, 4.NF.A.1, 4.MD.A.1, 4.OA.A.1, 4.NBT.B.4 & More!

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