



6th  
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

6.NS.A.1, 6.NS.B.2,  
6.NS.B.3, 6.EE.A.1,  
6.RP.A.1, 6.RP.A.3

6th Grade Math Skills  
Divide fractions & mixed-numbers,  
perform multi-digit division, solve  
ratio problems, exponents, and more!


# Fast Facts


 No prep, click & go! Optional printable pages

 Escape Time ~45-60 minutes

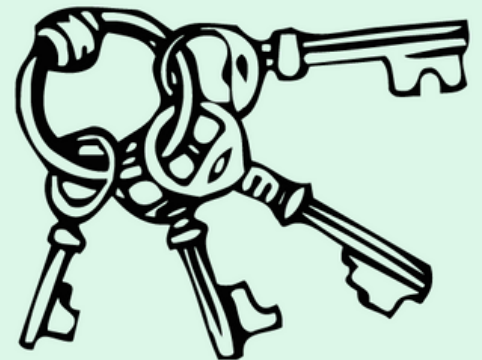
 Recommended to complete in small groups

 Requires internet connected device

 Self-Checking

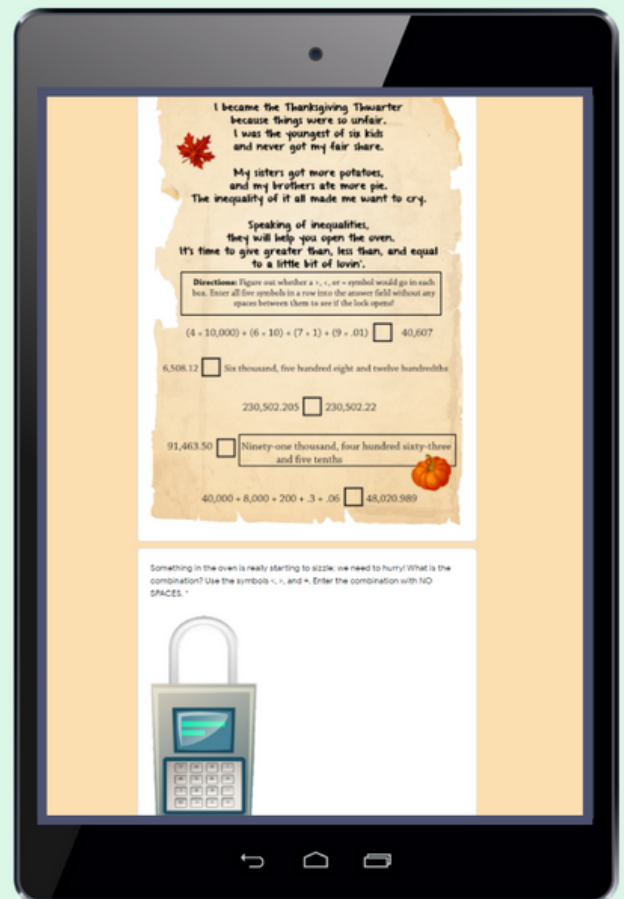
 Virtual or in-person

 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?*



## Lock Number 3: Three Number *Planning a Feast*

When planning a feast, math You'll need to use it to save this Thanksgiving. To help solve these problems and solve each word problem without using the numerical part of the answer, use the clues.



## 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.

## 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!



Adam, Bella, Charlie, Danielle, Ella, and Freddy have to sit at the "kids' table."

Bella consulted with Ella last year, so they have to sit with two people in between.

Names: \_\_\_\_\_

Freddy number \_\_\_\_\_ then \_\_\_\_\_

Charlie \_\_\_\_\_

Adam by  $\frac{2}{3}$

Daniel \_\_\_\_\_

## 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?



The Great ESCAPE

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## Lock Number 5: Find the Key *Evaluate the Expressions*

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. Evaluate the expressions to learn where it might be!



**Directions:** Evaluate each expression. 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!

$$2^3 - (9 - 3^2) = \underline{\quad} \quad \text{O}$$

$$9 \times (3 - 1) - 4^2 = \underline{\quad} \quad \text{I} \quad 6 \times 3 \div (7 - 4) = \underline{\quad} \quad \text{E}$$

$$2^2 - (3 + 1) = \underline{\quad} \quad \text{K}$$

$$4^2 \div 2^4 = \underline{\quad} \quad \text{L}$$

$$3^3 - (5 \times 2^2) = \underline{\quad} \quad \text{V}$$

1	8	8
8	7	6

The Great ESCAPE



## Thanksgiving

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

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# Digital Puzzle Preview

A number with three digits will open up this lock.  
These clues will help you find it before the turkey burns  
hard as a rock.

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

My number has ones, tenths, and hundredths

 Rounding to the nearest  
whole number, you get 4

 Rounding it to the nearest tenth,  
you get 3.5

The number of hundredths is greater than 3



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 can be found by subtracting 8.73 from the product of 6.23 and 1.7, then rounding your answer to the nearest whole number.

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

Adam gets along with everyone. His seat number can be found by dividing  $3\frac{1}{3}$  by  $\frac{2}{3}$ .

Danielle does not sit next to Ella.





# Digital Puzzle Preview

Growing up, I never got enough of my favorite side dishes. I even conducted a survey to prove to my family that I should make more mashed potatoes. In my survey, I found that the people who prefer mashed potatoes over sweet potato casserole were 3 times as many as the people who preferred sweet potatoes. How many people preferred mashed potatoes?

Apple pie is my favorite. I ate a lot of it because I never got a fair share as a kid. Last year, I got a little carried away and had  $7\frac{1}{4}$  pies left over. I cut each pie into pieces to freeze and save for later. Each piece was  $\frac{1}{8}$  of a whole pie. How many pieces of pie did I freeze?

I like to have some leftovers. I've discovered that the proper ratio of turkey to people is 12 pounds of turkey for every 8 people. If 36 people are going to be eating, how many pounds of turkey do I need to buy?

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'.

**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!

$14.03 \times 0.8$    $14.03 \div 0.8$

$6.032 + 1.75$    $10.142 - 2.36$

$578 \div 34$    $414 \div 18$

$271 \div 8$    $15.05 + 18.825$

$5.07 \times 2.8$    $19.06 - 4.865$

**Directions:** Evaluate each expression. 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!

$2^3 - (9 - 3^2) = \underline{\quad}$   
O

$9 \times (3 - 1) - 4^2 = \underline{\quad}$   
I

$6 \times 3 \div (7 - 4) = \underline{\quad}$   
E

$2^2 - (3 + 1) = \underline{\quad}$   
K

$3^3 - (5 \times 4 + 3) = \underline{\quad}$   
M

$2^4 - 3^2 - 2^2 = \underline{\quad}$   
T

$4^2 \div 2^4 = \underline{\quad}$   
L

$3^3 - (3^2 + 3^2) = \underline{\quad}$   
H

$5^2 \div (1 + 2^2) = \underline{\quad}$   
N

$3^3 - (5 \times 2^2) = \underline{\quad}$   
V

--	--	--	--	--

1 8 8 0

--	--

2 5

--	--	--	--

3 9 6

--	--	--	--

8 7 6 5

--	--	--	--

4 2 3 3

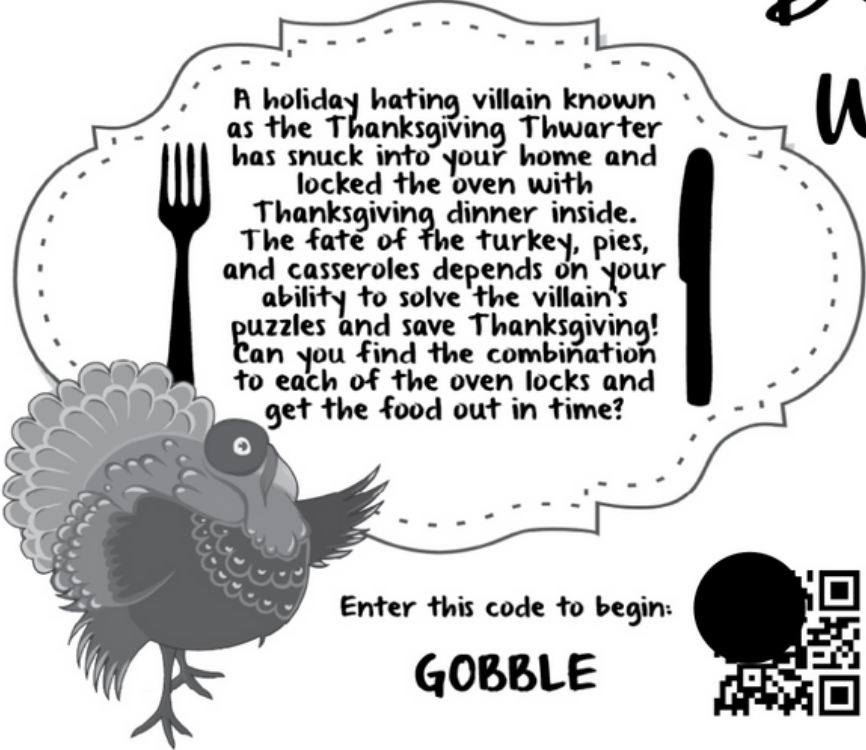


# Optional Printable Pages

## Backstory with QR code


**The Great Classroom ESCAPE**  
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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!**

**The Great  
CLASSROOM  
ESCAPE**

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# You May Also Like

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Rates & Ratios

**Escape the Haunted House**

6.RP.A.1  
6.RP.A.2  
6.RP.A.3

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**EASY TO IMPLEMENT**

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**The Great CLASSROOM ESCAPE**  
Operation Restore Order

**TOP SECRET**

NAME: \_\_\_ KEY  
KNOWN ALREADY: \_\_\_

WANTED FOR:  
You have been accused of creating math problems to be solved. You have written math problems that are impossible to solve. You have written math problems that are impossible to solve. You have written math problems that are impossible to solve. You have written math problems that are impossible to solve.

METHODS OF OPERATION:  
You have been accused of creating math problems to be solved. You have written math problems that are impossible to solve. You have written math problems that are impossible to solve. You have written math problems that are impossible to solve. You have written math problems that are impossible to solve.

**CONFIDENTIAL**

6.EE.A.1

Order of Operations with Exponents  
**DIGITAL ESCAPE ROOM!**

**The Great CLASSROOM ESCAPE**  
Area of Polygons

**Easy to Implement**

**POLLY'S PIZZA**

**DIGITAL OR PRINT ESCAPE ROOM!**

6.G.A.1



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