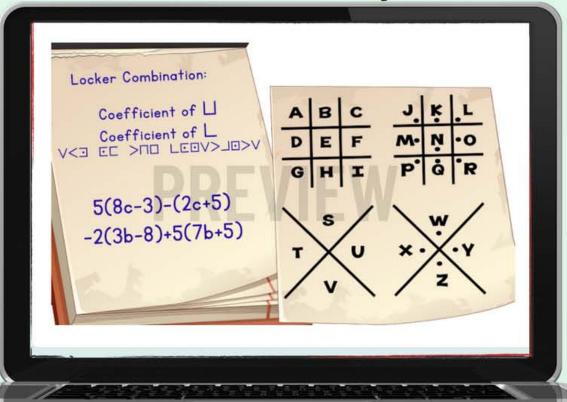


7.EE.A.1

Escape the Bunker with Linear Expressions Bigital Escape Room





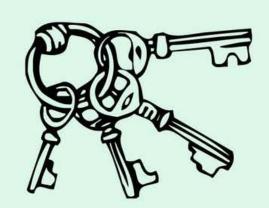


## 7th Grade Math Skills

Add & subtract linear expressions, combine like terms, factor & distribute. Includes operations with integers

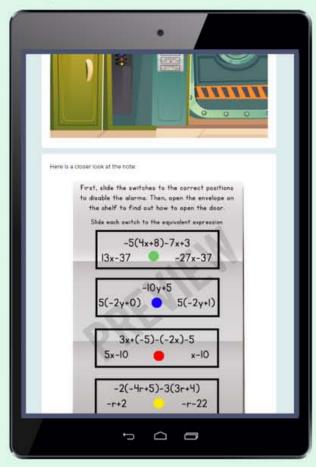
# fast facts

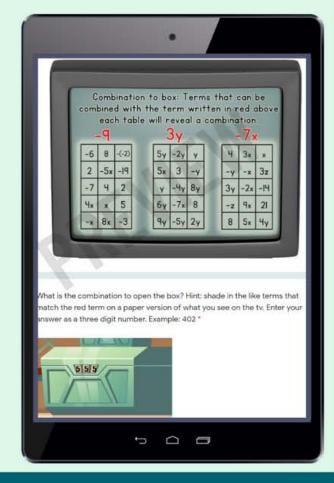
- No prep, click & go! Optional pages to print
- Escape Time ~45 minutes
- Complete individually or in small groups
- Requires internet connected device
- Self-Checking
- Virtual or in-person
- Four Engaging Puzzles



## 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 Preview Preview

-19

2

-5x

-7

Чx

#### Steps to unlock the bunker door:

- I. Tune the TV to channel 3(x-5)-3x+2I
- 2. Open the container with the three-digit lock.
- 3. Open the locker.
- 4. Follow the directions you find in the locker.

oox: Terms that can be term written in red above reveal a combination.

3,

/ -/

У	-2y	y -y	
5×	3		
У	-4y	8y	
6у	-7x	8	

9y | -5y | 2y

Ŧ	3x	×
-у	-x	3z
Зу	-2×	-14
-z	qx	21
8	5x	49

Locker Combinati

Coefficient of L

VCO EE > NO LEOV > JO>V

	D			·	•=
D	E	F	W-	Ņ	•0
G	н	I	b,	Ö.	·R

## Puzzle Preview

First, slide the switches to the correct positions to disable the alarms. Then, open the envelope on the shelf to find out how to open the door.

Slide each switch to the equivalent expression

$$R -x+1+5x+3$$

$$E - 4x + 4(2x - 1)$$

+2

$$S - 2(2x+1)+6$$

$$B - 3x - x + 5 - 9$$

$$T - I(2x+2) - (2x+2)$$

$$H_{2(x-1)+(2x-2)}$$

D 
$$2(2x+1)+2$$

$$N - 5x + 3 - 7 + x$$

$$T - 4(-x+1)$$

# Preview

# Preview

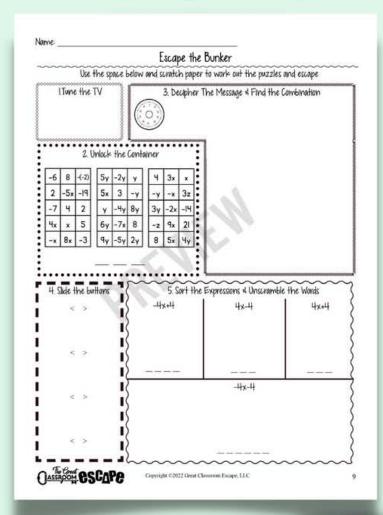
Sort these expressions into four sets of equivalent expressions.

Unscramble the words to see what you must do.



## Optional Printable Pages

## Recording Page



## Sorting Expressions

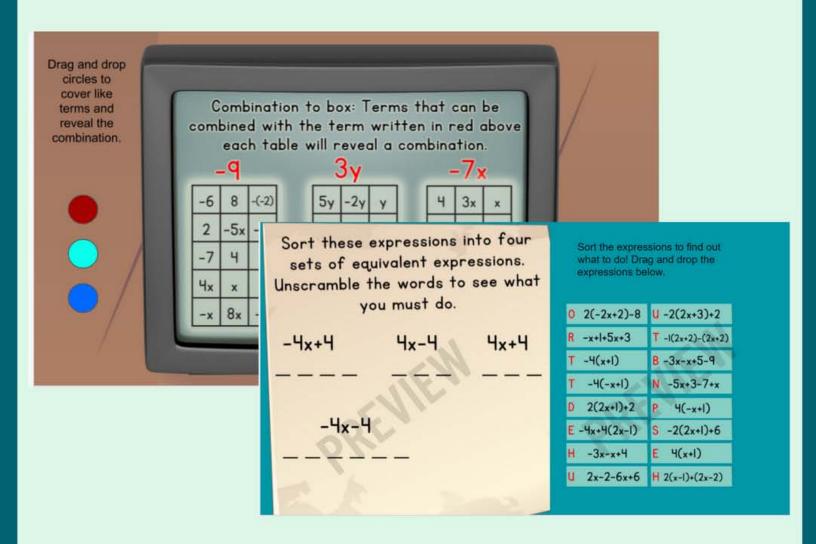
Teacher instructions: This page is optional, but may help students sort the expressions. Print one copy of this page for every four groups. Cut out the sets of 16 expressions out along the dotted lines. Instruct students to ask you for their set of expressions when they reach the section of the escape room entitled "Contents of the Envelope." Students can cut apart the individual expressions to sort them. U -2(2x+3)+2 -4(x+1) H -3x-x+4 -4(x+1) -3x-x+4 -v+l+5v+3 4(-x+1) -x+I+5x+3 4(-x+1) E -4x+4(2x-1) 2(-2x+2)-8 E -4x+4(2x-1) 2(-2x+2)-8 B -3x-x+5-9 -2(2x+1)+6 -2(2x+1)+6 B -3x-x+5-9 4(x+1) T -I(2x+2)-(2x+2) 4(x+1) 2(2x+1)+2 2(x-1)+(2x-2) H 2(x-1)+(2x-2) 2(2x+1)+2 -4(x+1) -3x-x+4 -x+l+5x+3 4(-x+1) -x+l+5x+3 4(-x+1) 2(-2x+2)-8 E -4x+4(2x-1) 0 2(-2x+2)-8 E -4x+4(2x-1) -2(2x+1)+6 B -3x-x+5-9 -2(2x+l)+6 B -3x-x+5-9 4(x+1) T -1(2x+2)-(2x+2) 4(x+1) T -1(2x+2)-(2x+2) 2(x-1)+(2x-2) D 2(2x+1)+2 H 2(x-1)+(2x-2) 2(2x+1)+2 -4(-x+1)

Syccess Figns

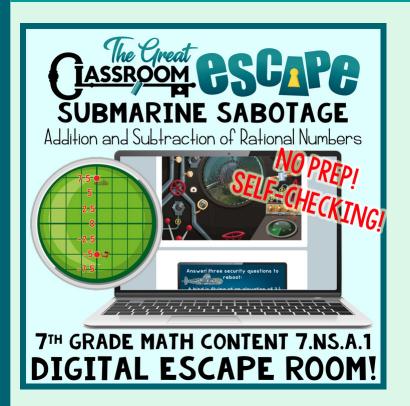


# Optional Digital Tools

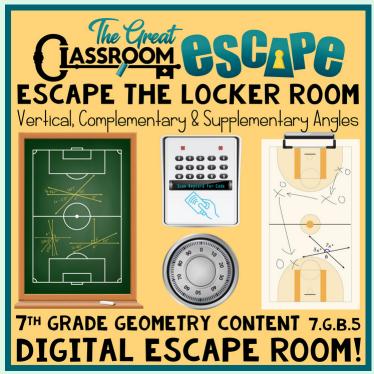
# Optional Interactive Google Slides or TpT Easel Activity for Distance Learning/Paperless puzzle solving tools

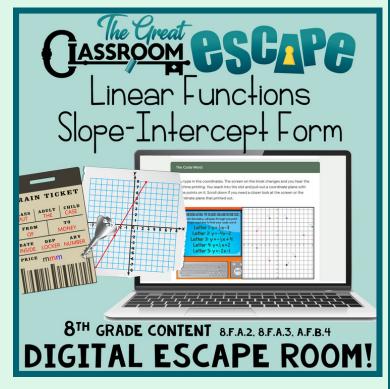


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