



### headspace

2 minutes- Breathe



# TikTok videos













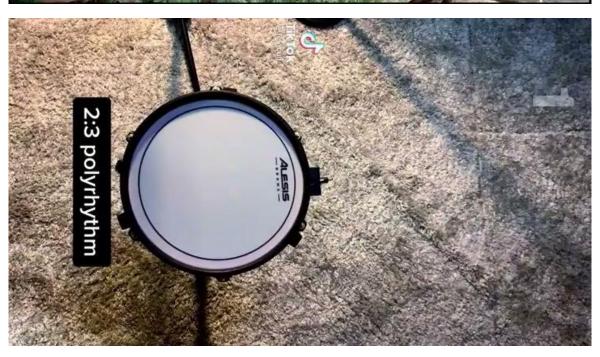




shown in the videos? What are some ways that math is all around us that are















# Discuss in group!

- 1. What are some ways that math is all around us that are shown in the videos?
- 2. Can you think of 3 other ways about this later today) math is around us? (we will talk

### Math for human desires

#### Sudoku

The goal when filling out a sudoku is to enter a number from 1 to 9 in each box of the puzzle. Each row, column, and outlined  $3 \times 3$  region must contain each number only once.

#### Example I

	1	4	2	8	6			9	
				5			6	4	
2	9	6	4	7		5	8	1	
	2	7			5		4	8	Sudo
		9	3	2		6	5		Sudoku Puzzle - Easy
	5	1	8	4	7	9	2		Easy
4		2	5	9	8				
_	7		6	3		4			
9	9			_	4	8	3	2	

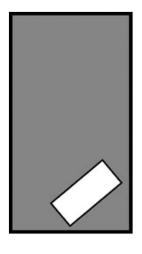
Mathematical exploration begins with questions. So I'm scattering a few puzzles throughout this book. No pressure—you can skip them if you wish, or think about just the ones that seem enticing. Hints and solutions can be found in the back, but before you look there, I recommend playing around with each problem.

#### DIVIDING BROWNIES

A father bakes brownies in a rectangular pan as an afterschool snack for his two daughters. Before his daughters get home, his wife comes along and removes a rectangle from somewhere in the middle, with the sides of the rectangle not necessarily parallel to the sides of the pan.

How can he make one straight cut and divide the remainder of the brownies evenly between his two daughters so that they get the same area?

A version of this puzzle was featured on the NPR show Car Talk.

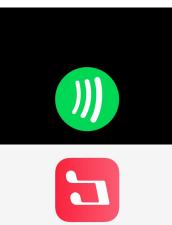


### Math in nature

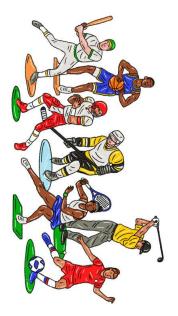


## Math in the REAL world



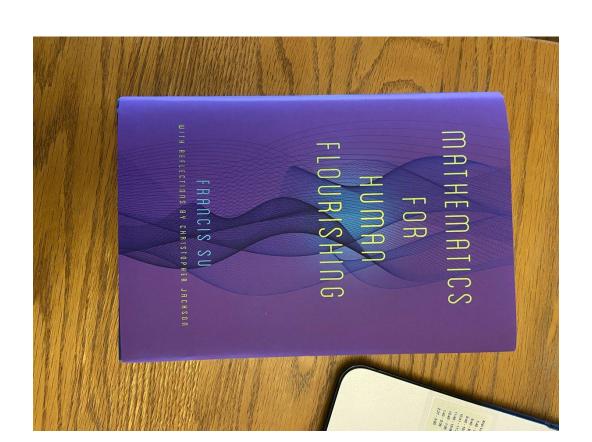












- Flourishing
  Exploration
  Meaning
  Play
  Beauty
  Performance
  Truth
  Struggle
  Power
  Justice
  Freedom
  Community
  Love

### **Flourishing**

human life and experience the best of that will allow you to live a more fully what life has to offer."(12) aspects of character and habits of mind if grounded in human desires, build "I'm saying that the pursuit of math can,

### **Exploration**

the idea that math is memorization, and "At every opportunity we need to counter exploration." (26) replace it with the idea that math is

#### Meaning

those patterns." (44) and the art of engaging the meaning of "Mathematics is the science of patterns

#### Play

problem." (61) fit for the next problems, whatever it might soccer practices build up muscles that "Math builds perseverance-just as weekly be- even if we don't solve the current weekly math investigations make us more make us stronger for the next game,

#### Struggle

the learning happens.." (122) "Struggling is a good thing, that is where

## Future plans (:

Day 1: Math in real world (\*\*)



Day 2: Movement & probability

Day 3: Video games & probability

Day 4: Art & graphing

Day 5: Art gallery & celebration

# Exit ticket!