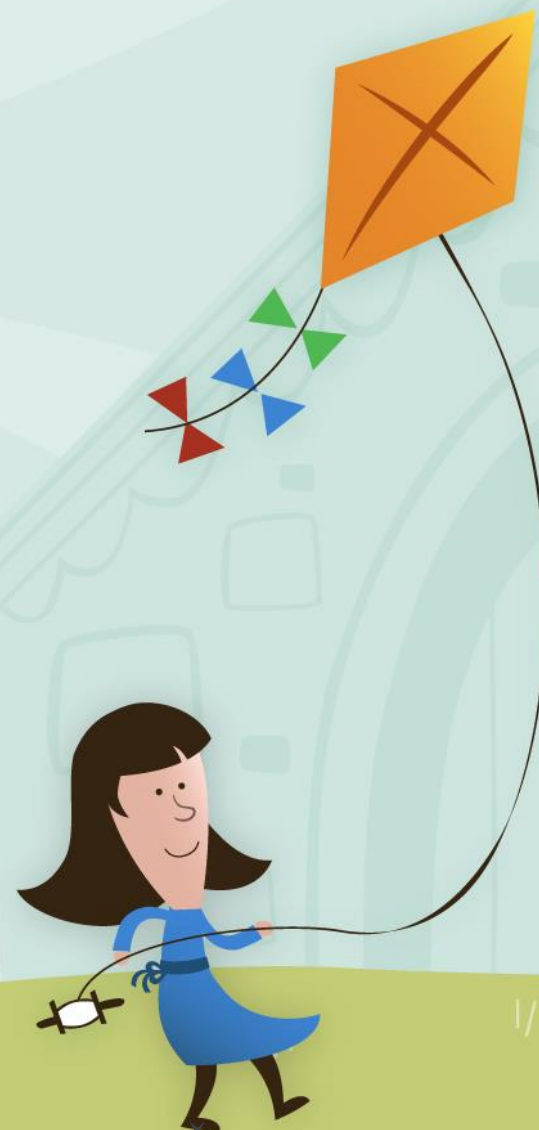
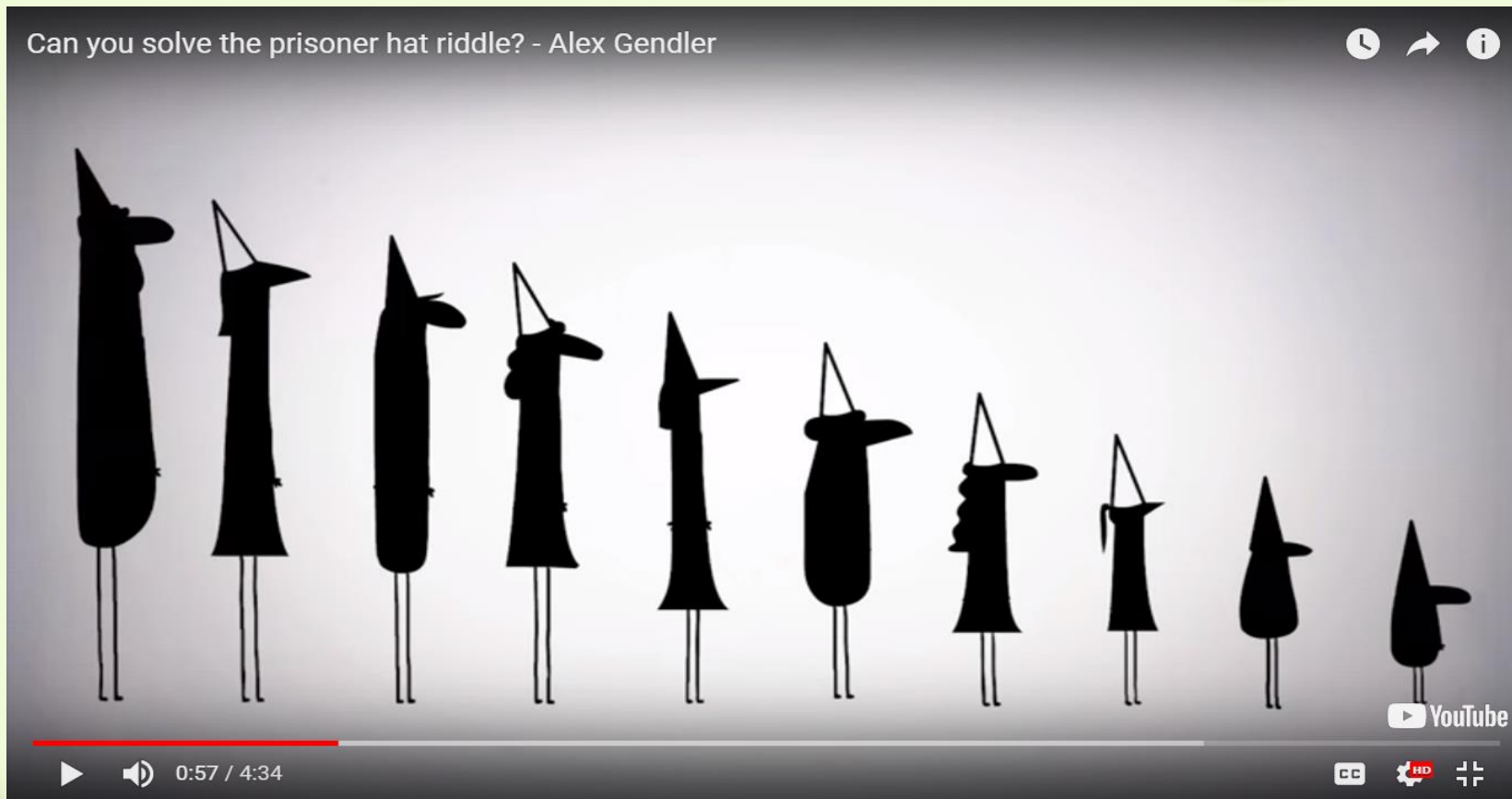


Mozgalice i zagonetke u nastavi matematike

ili kako pobjeći od izvanzemaljaca koristeći matematiku



<https://ed.ted.com/lessons/can-you-solve-the-prisoner-hat-riddle-alex-gendler>



Mozgalice i zagonetke

- ✓ zadatak, pitanje, izričaj
- ✓ razmišljanje
- ✓ zasnovana na matematičkim pravilima
- ✓ teorija brojeva ili geometrija

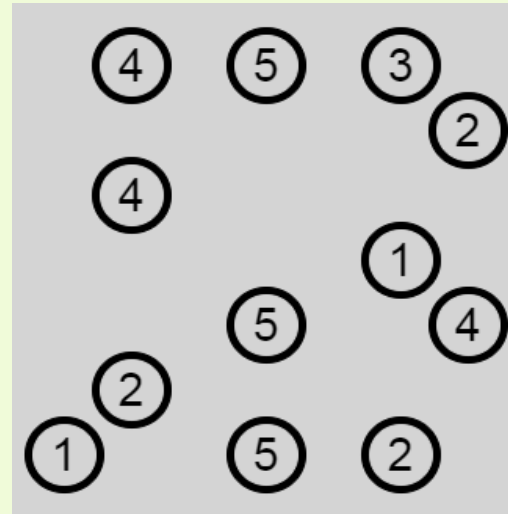
- ✓ društvene vještine
- ✓ memorija
- ✓ rječnik
- ✓ kreativnost
- ✓ logika
- ✓ razumijevanje
- ✓ rješavanje problema



Mozgalice i zagonetke

	3			3
4		2	3	
4				2
	2		2	

Pravokutnici
(Rectangles)



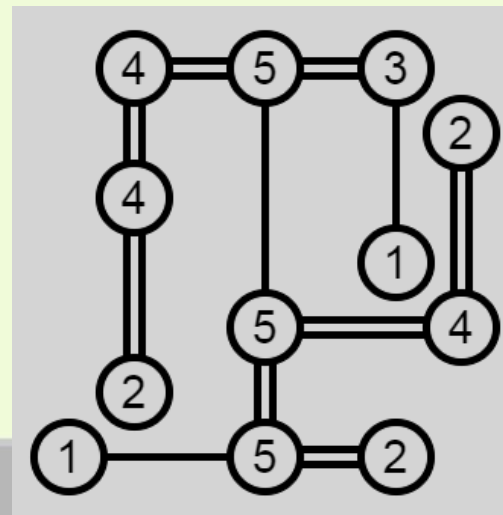
Mostovi
(Hashi, Bridges)

1				
		3		
		1		
	2			
			3	2

Šetnja
(Numberlink)



	3			3
4		2	3	
4				2
	2		2	



1	2	2	2	2
1	2	3	3	2
1	2	1	3	2
1	2	1	3	2
1	1	1	3	2



Zmija



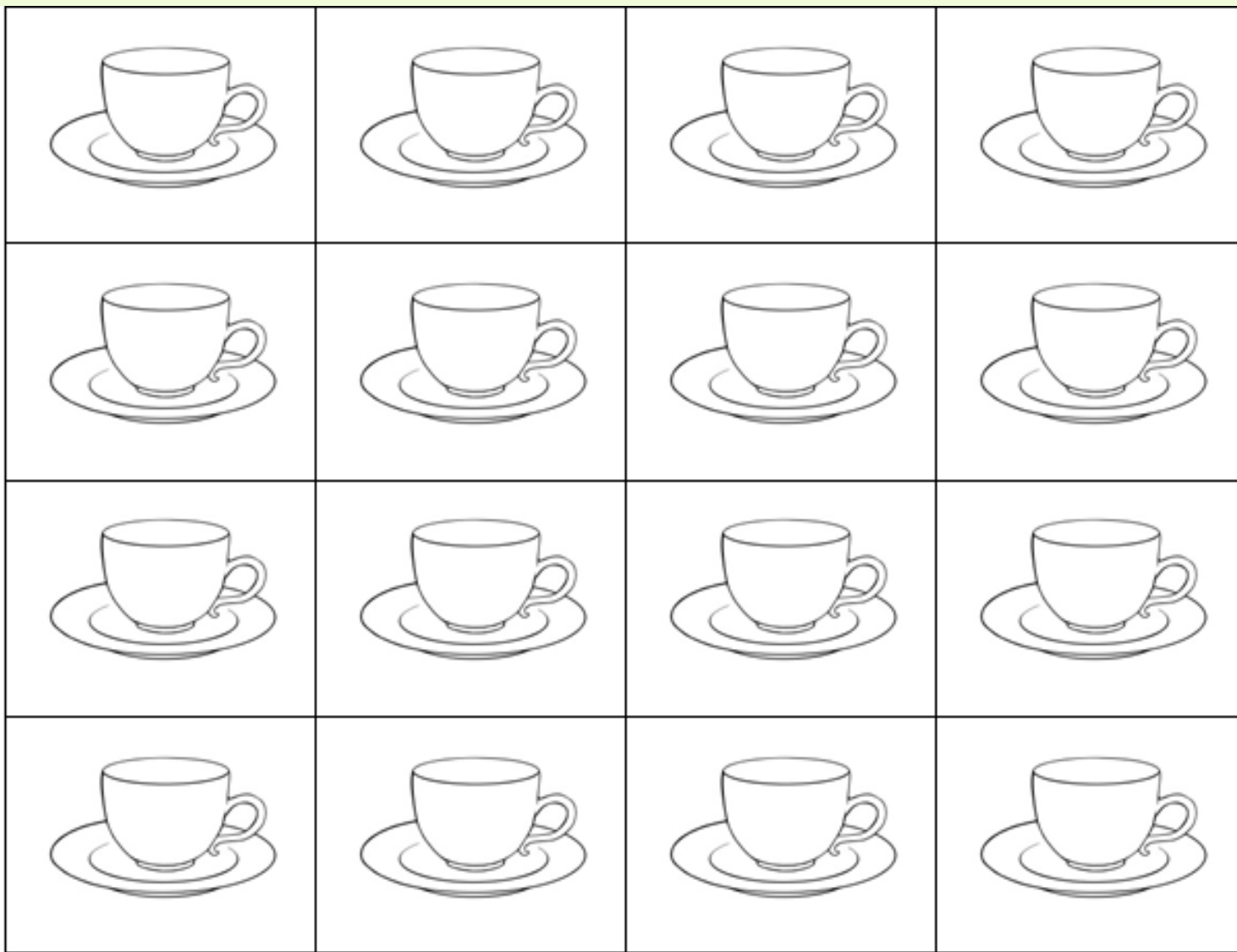
	5			
	12			
				21

3				
		18		
			15	
7				25

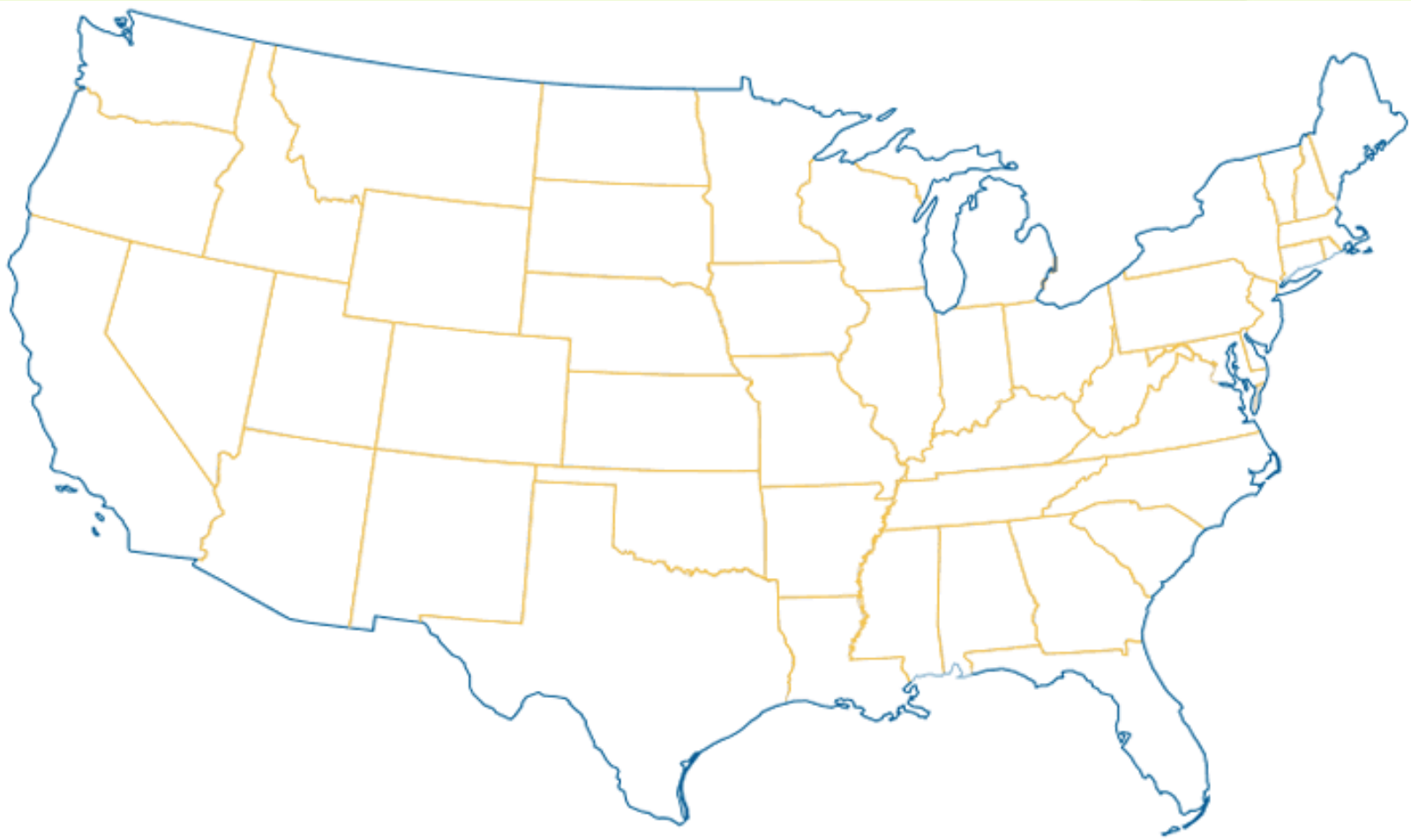
	9			
			16	
		23		

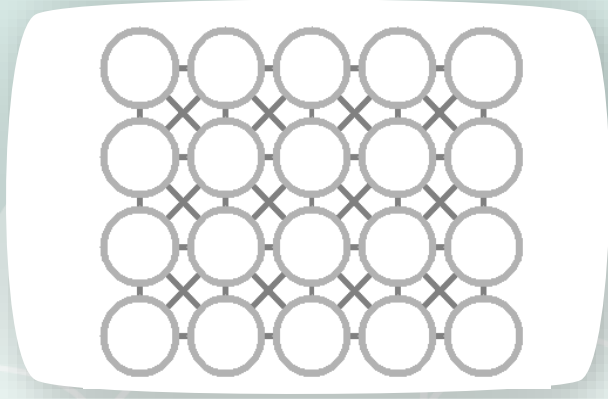
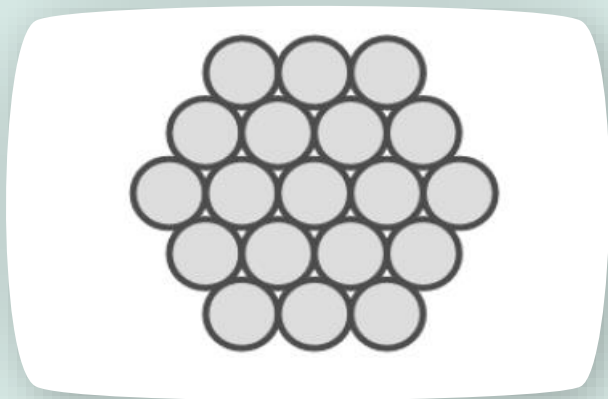
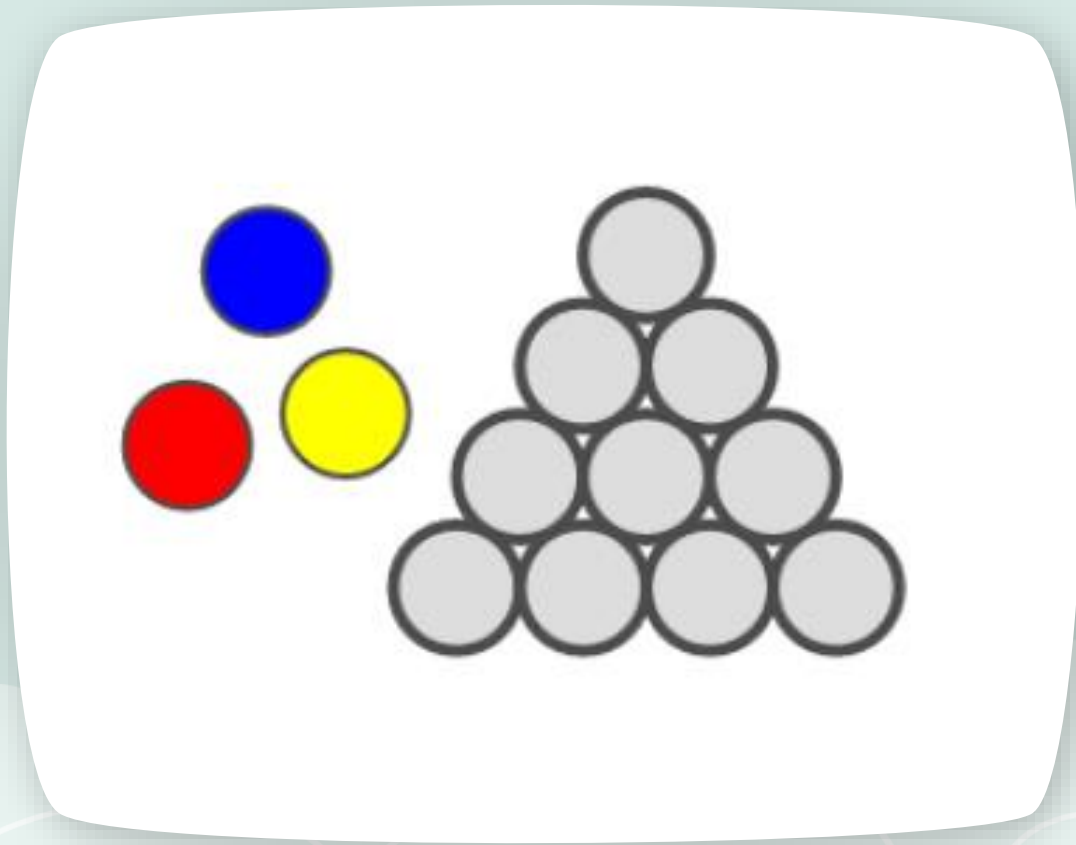


Oboji šalice



Problem 4 boje





A 3 boje?

Mozgalice i zagonetke

$$x + y + z + k = 24$$

$$x + k = y$$

$$z - k = 2$$

$$2x - 1 = y$$



Mozgalice i zagonetke

$$\text{🍰} + \text{🍦} + \text{🍕} + \text{🍩} = 24$$

$$\text{🍰} + \text{🍩} = \text{🍦}$$

$$\text{🍕} - \text{🍩} = 2$$

$$\text{🍰} + \text{🍰} - 1 = \text{🍦}$$

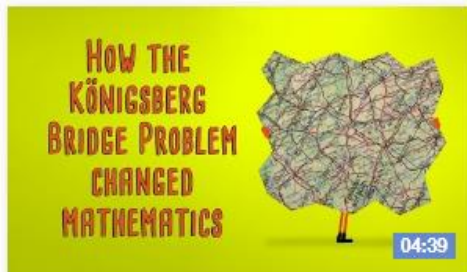
$$\text{🍰} = ? \quad \text{🍦} = ? \quad \text{🍕} = ? \quad \text{🍩} = ?$$





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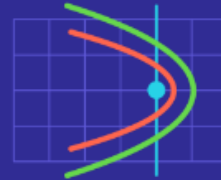
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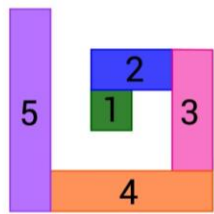
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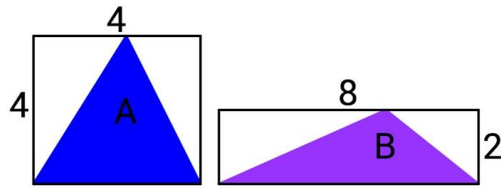
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Bo draws a 1-by-1 square (green). He begins a spiral by adding on a 2-by-1 rectangle (blue), then a 3-by-1 rectangle (pink), etc. Each rectangle is one unit longer than the previous rectangle added. What will be the perimeter of the spiral after the 8th rectangle is added?

- 64
- 74
- 82
-

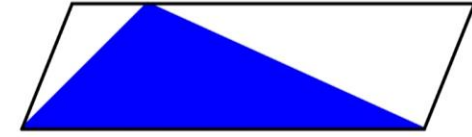


Which triangle has a greater area?

- A
- B
- They're equal

CHECK ANSWER

VIEW SOLUTION



The area of the parallelogram is 100. What is the area of the triangle?

- 25
- 50
- 75
- Cannot be determined



Can you solve the prisoner hat riddle? - Alex Gendler



YouTube

0:57 / 4:34



Korisni linkovi:

- ✓ <https://www.chiark.greenend.org.uk/~sgtatham/puzzles/>
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