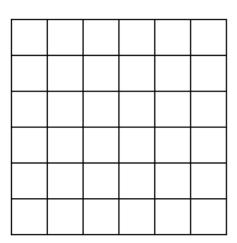
Badkamertegelen voor Gevorderden

https://www.chegg.com/homework-help/questions-and-answers/find-number-ways-2-color-36-squares-6-6-game-board-rotates-flip-see-figure-1-q21430801

Figure 1



Regels:

- Tegels zijn regelmatige veelhoeken
- Geen ruimte tussen tegels
- Geen overlappende tegels
- Zijdes precies tegen elkaar aan

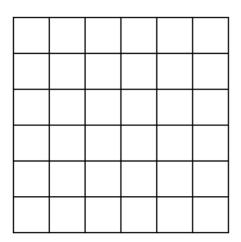
Opdracht 1:

Welke figuren kunnen <u>in hun eentje</u> een hele muur voltegelen? En **waarom**?

Opdracht 2:

Als je twee figuren mag combineren, welke kunnen dan samen een patroon maken dat een hele muur bestrijkt?

Figure 1



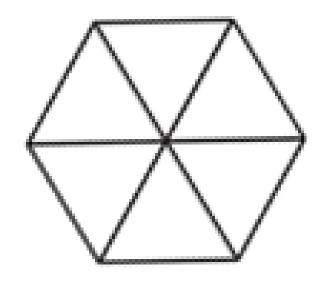
Regels:

- Tegels zijn regelmatige veelhoeken
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Welke figuren kunnen <u>in hun eentje</u> een hele muur voltegelen?

En waarom?

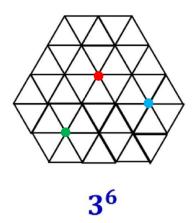


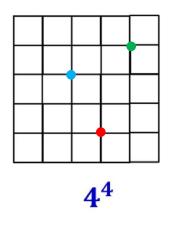
n	Binnen hoek
3	60°
4	90°
5	108°
6	120°
7	128.57°
8	135°
9	140°
10	144°
11	147.3°
12	150°

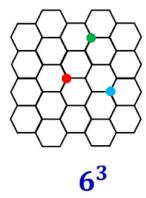
Opdracht 2:

Als je twee figuren mag combineren, welke kunnen dan samen een patroon maken dat een hele muur bestrijkt?

Wat is een vertex? En wat is de code?





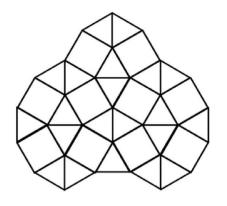


Maak bij deze code(s) het patroon

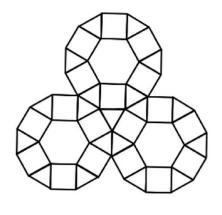
- 3^2 , 4, 3, 4
- 3, 4, 6, 4
- 4, 6, 12

Maak bij deze code(s) het patroon

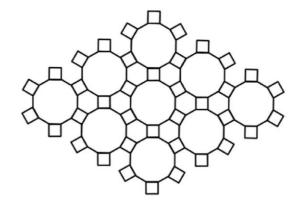
- 3^2 , 4, 3, 4
- 3, 4, 6, 4
- 4, 6, 12



$$3^2, 4, 3, 4$$



3,4,6,4



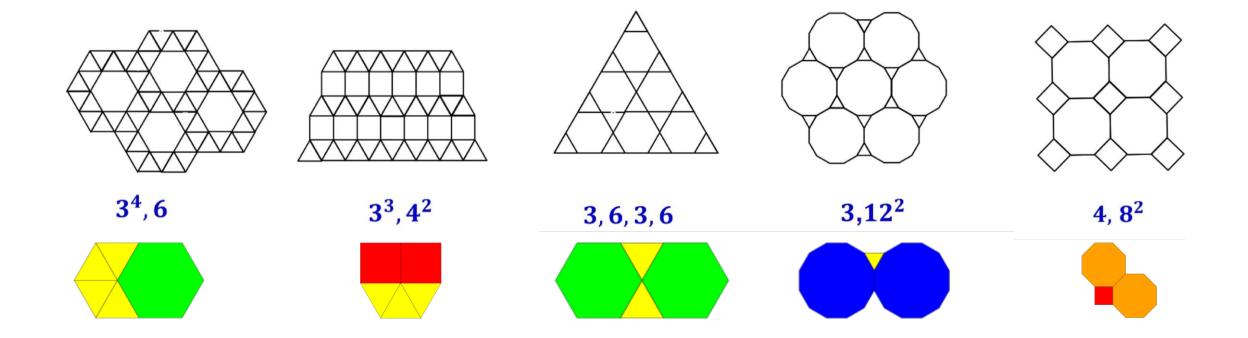
4, 6, 12

Maak samen jullie eigen patroon

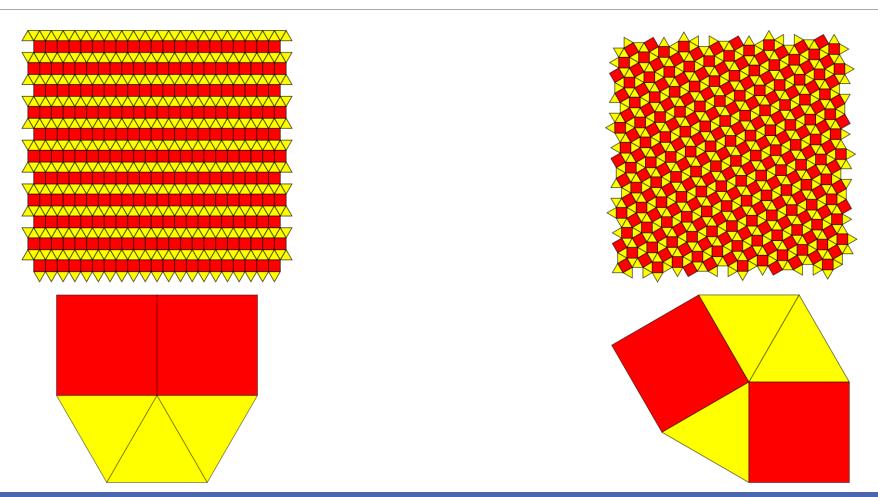
- •Gebruik twee verschillende soorten figuren
- •Noteer de code van je patroon

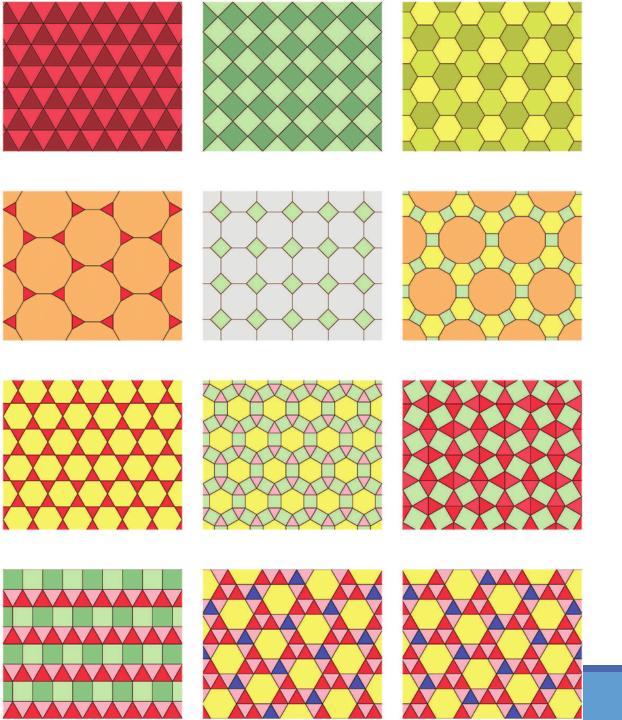
Maak samen jullie eigen patroon

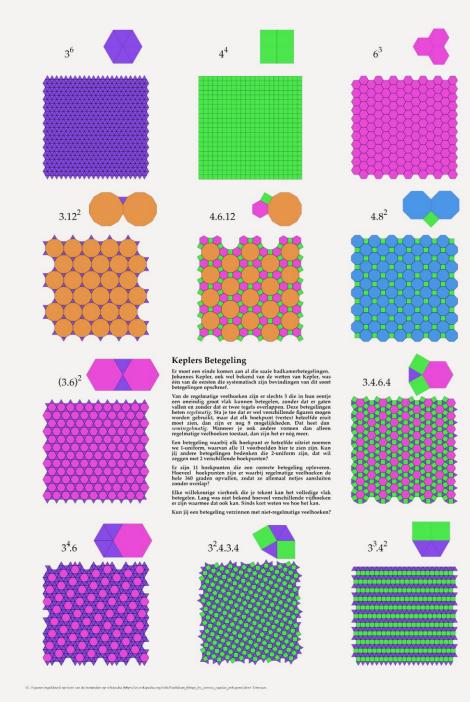
- •Gebruik twee verschillende soorten figuren
- •Noteer de code van je patroon



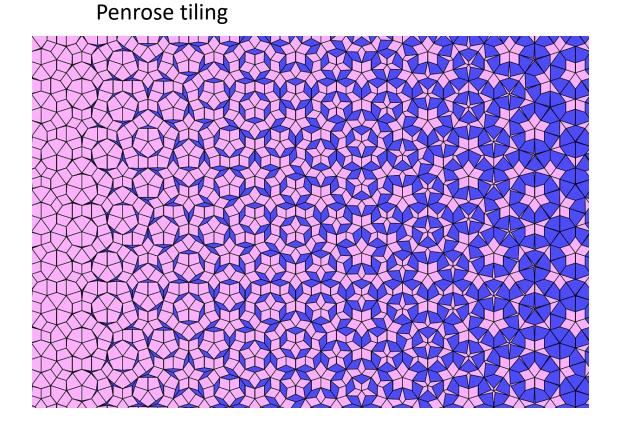
 $3^3, 4^2$ vergeleken met $3^2, 4, 3, 4$

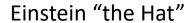


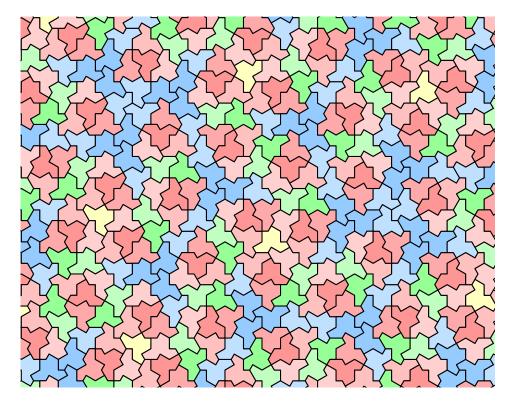




Onregelmatige patronen

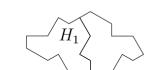


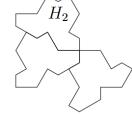




Regels

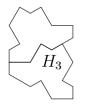
Einstein: "the Hat"





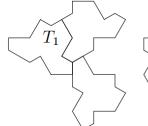
Rule #1, label H_1

Rule #2, label H_2



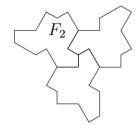
Rule #3, label H_3

Rule #4, label H_4



Rule #5, label T_1

Rule #6, label P_2

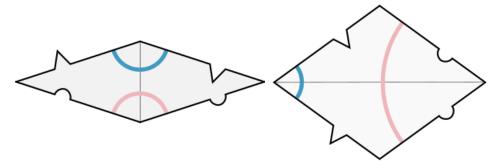


Rule #7, label F_2



Rule #8, label FP_1

Penrose tile: Rhombi (Ruiten)



Penrose tile: Kite and dart

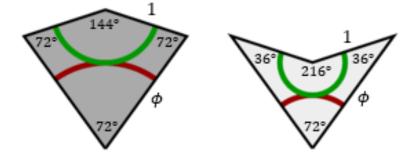
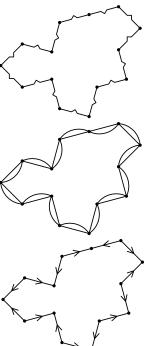
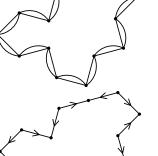


Figure 1

Einstein: "the Spectre"





Speeltijd

Zie ook nathan.chillin.gs/tesselation

