

MOSAICOS Y TESELAS



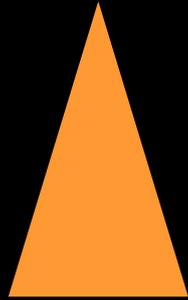
Mosaico: Construcción geométrica en la que utilizando repetidamente piezas iguales o de unas pocas formas diferentes...

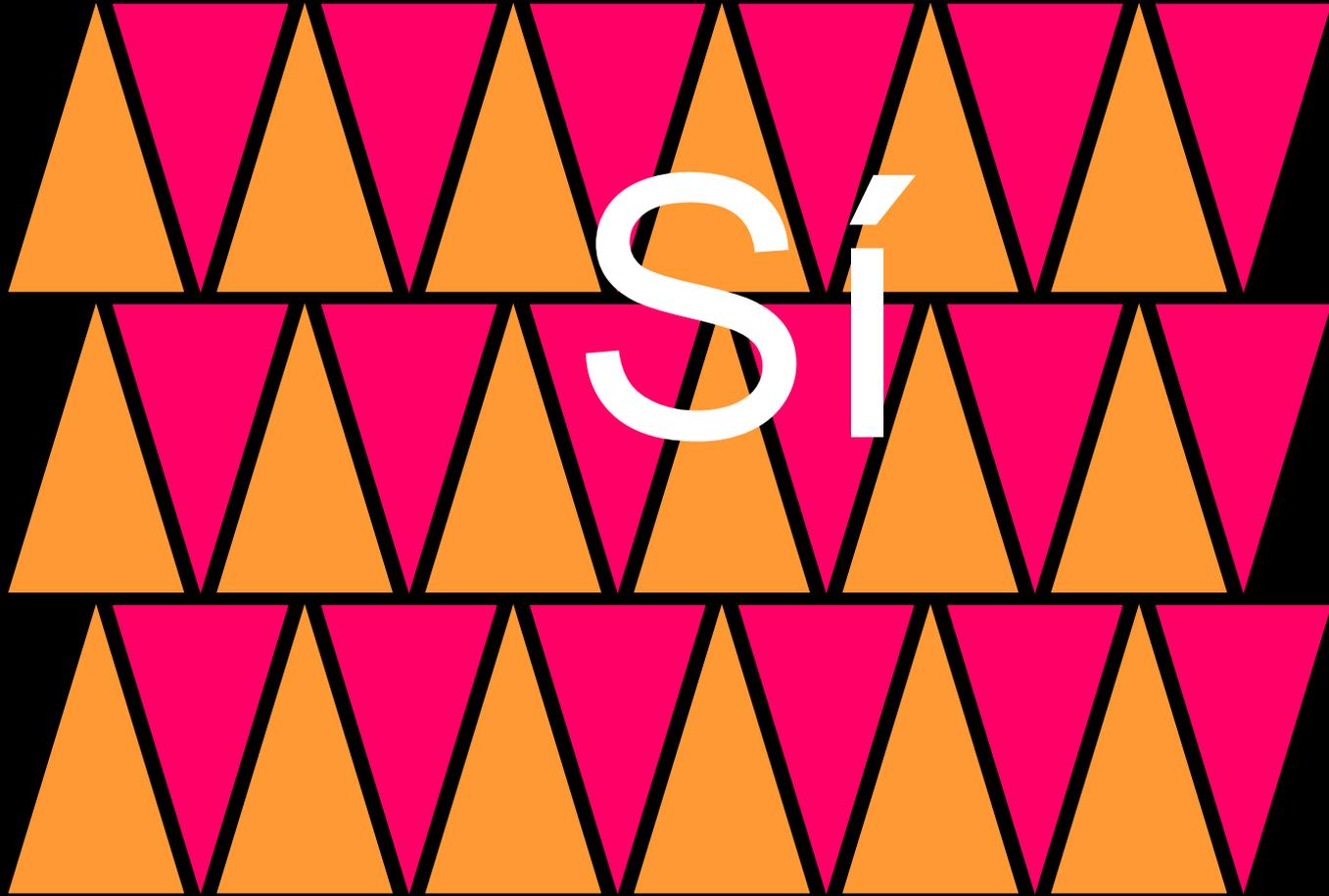
...se consigue recubrir el plano, sin que haya huecos ni solapamientos.



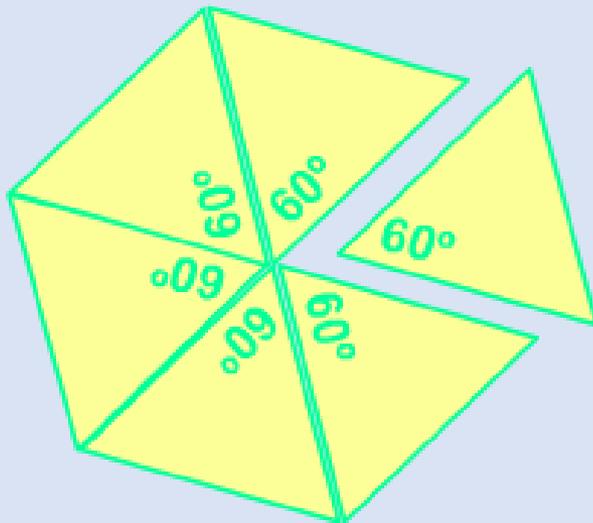
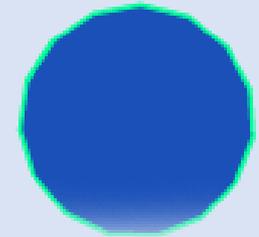
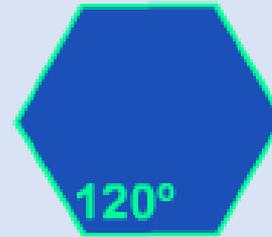
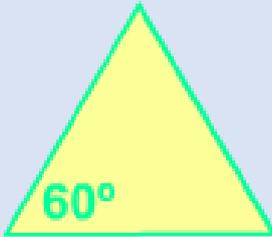
Mosaicos con polígonos regulares

Es posible recubrir el plano utilizando triángulos?





También con triángulos regulares (equiláteros)



$$360^\circ / 60^\circ = 6.$$

os que se podrá tes

Es posible recubrir el plano utilizando cuadriláteros?



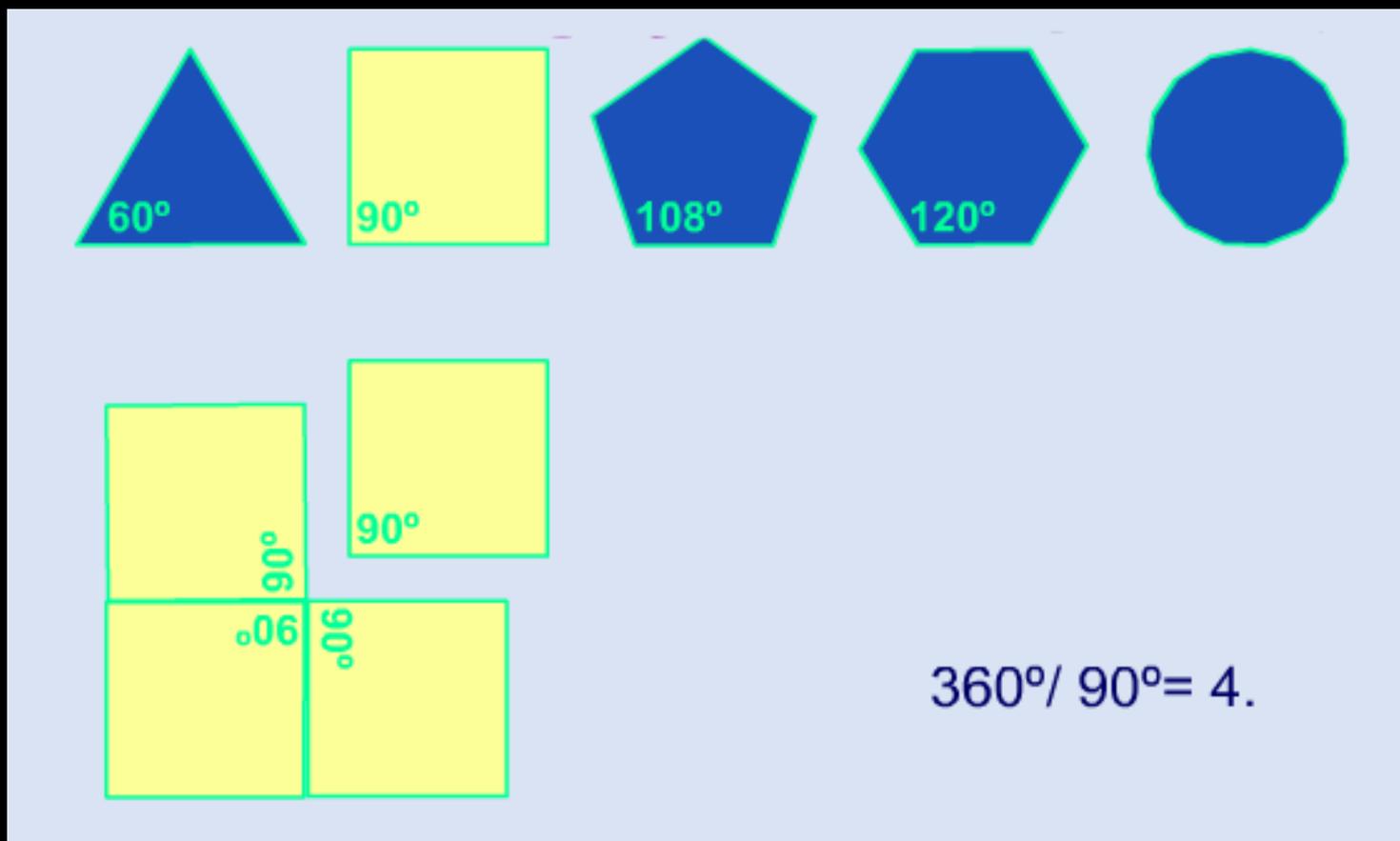
The background consists of three horizontal rows of teal-colored parallelograms. Each row contains four parallelograms, and they are offset from each other to create a continuous chevron or zigzag pattern. The entire pattern is set against a solid black background.

Sí

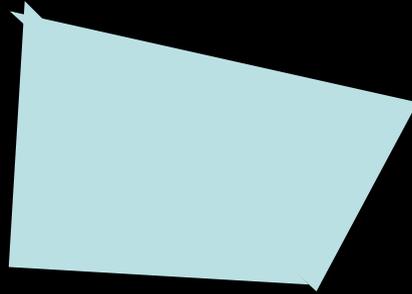
Es posible recubrir el plano utilizando cuadriláteros

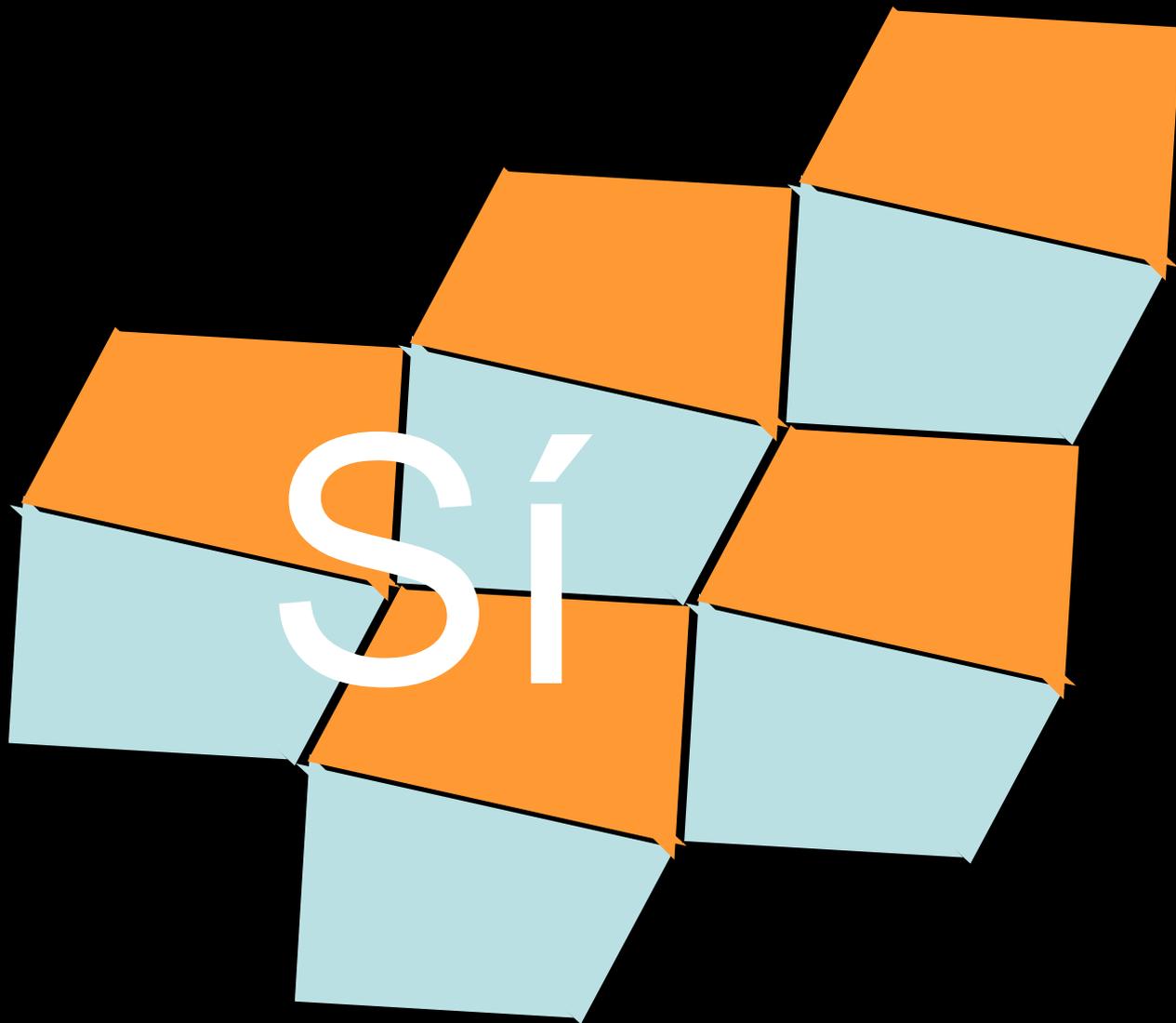


También con cuadriláteros regulares (cuadrados)

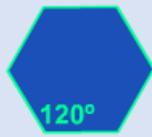


¿Toda clase de cuadriláteros?

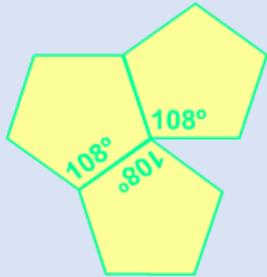




Sí



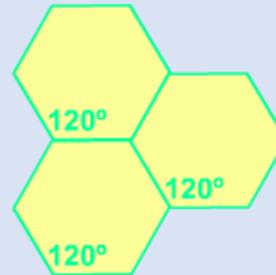
¿Pentágonos regulares?



$$360^\circ / 108^\circ = 3 + 36^\circ$$



¿hexágonos regulares?



$$360^\circ / 120^\circ = 3.$$

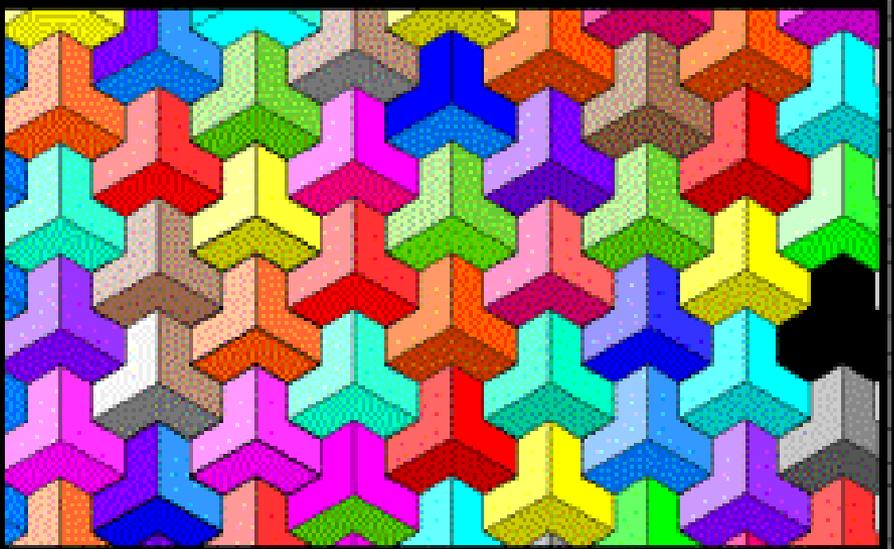


$$((n-2) \times 180^\circ) / n$$

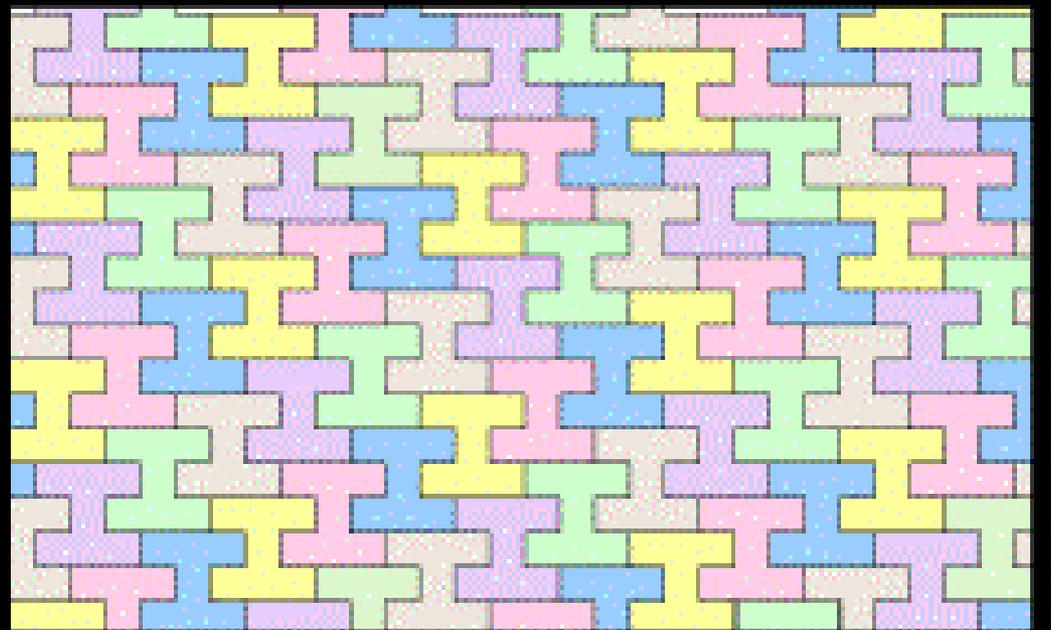
¿Círculos?

Saquemos conclusiones:

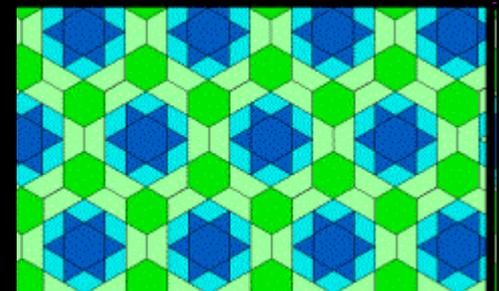
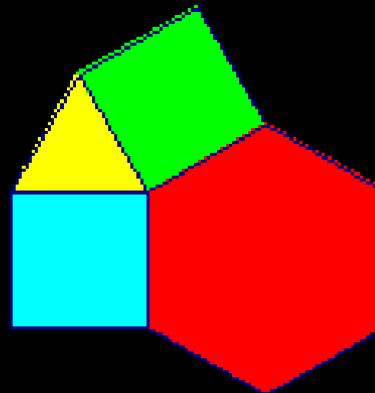
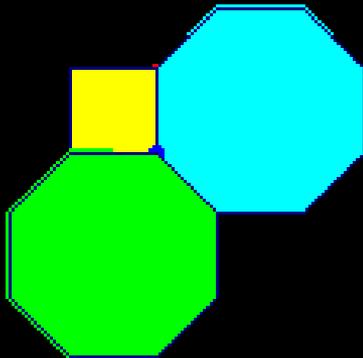
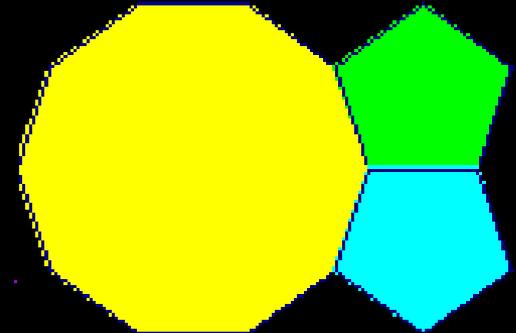
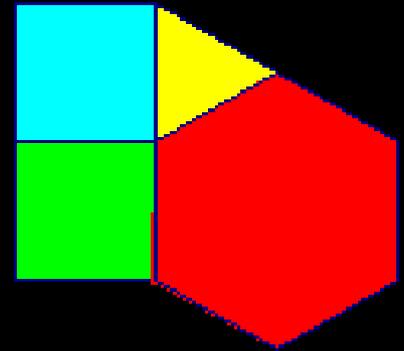
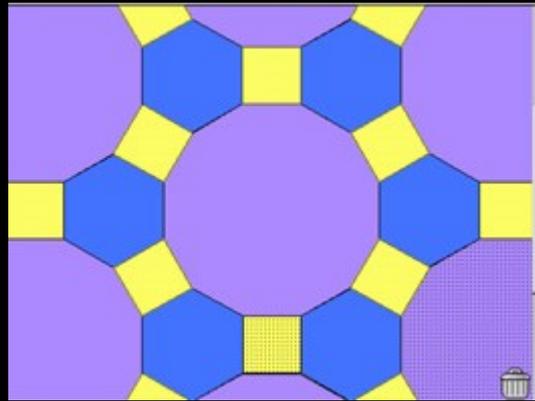
	regulares	Irregulares
Triángulos		
Cuadriláteros		
Pentágonos		
Hexágonos		
Heptágonos		
Octógonos		



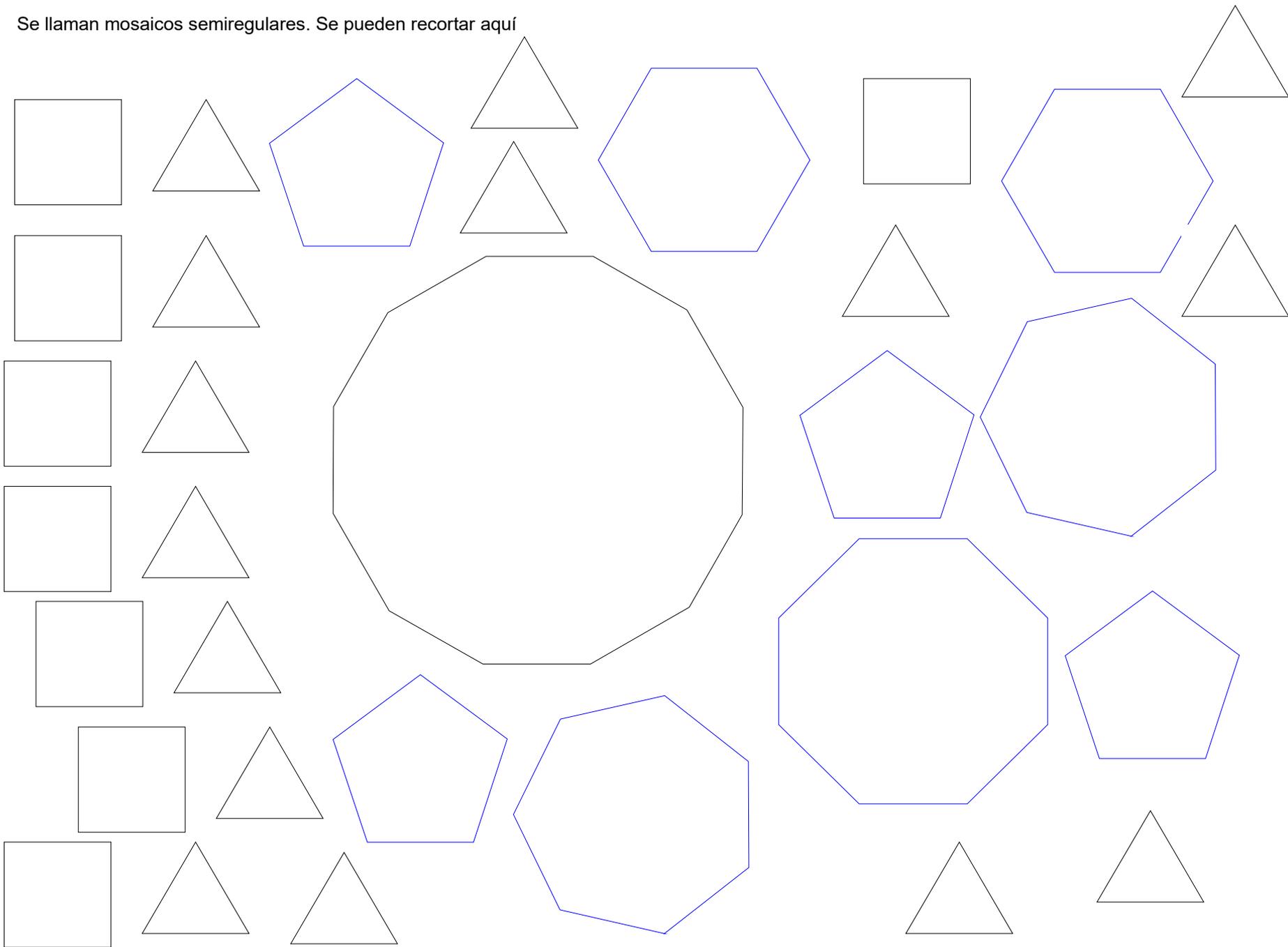
Mosaicos con dodecágonos

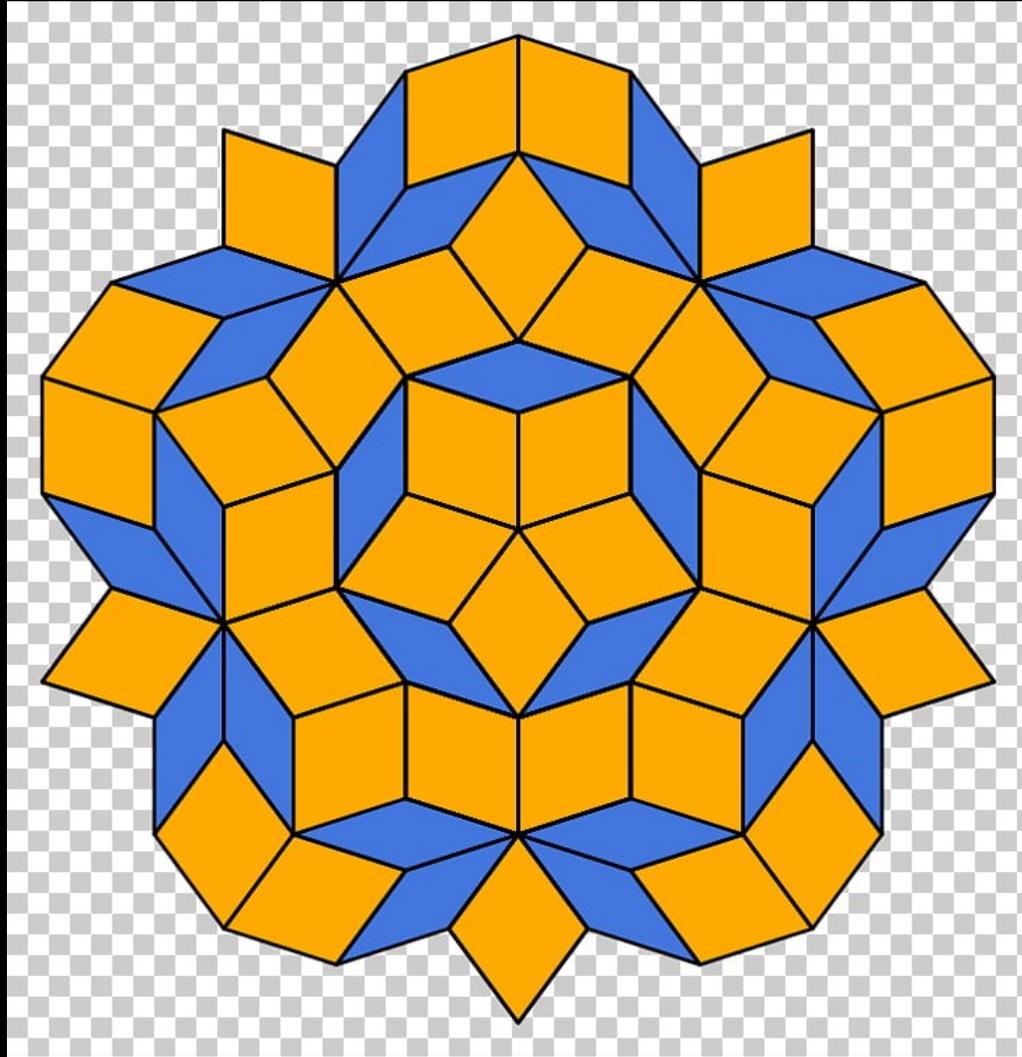


¿Pueden hacerse mosaicos con combinaciones de polígonos regulares (mosaicos semirregulares)?



Se llaman mosaicos semiregulares. Se pueden recortar aquí





Lo más bonito está por llegar; los mosaicos artísticos.