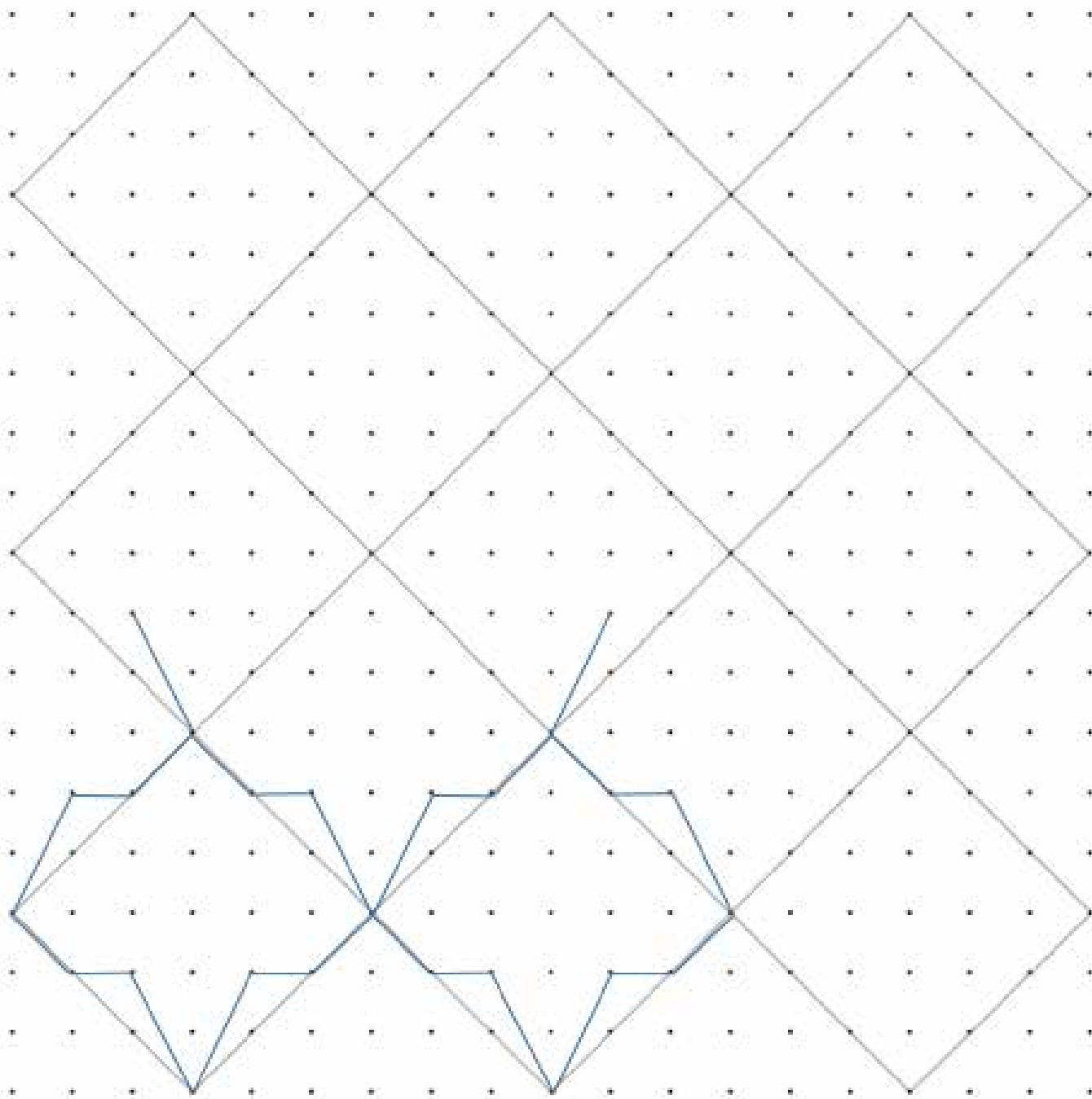


Look at the tessellation that has been started below.
Complete it as much as possible.



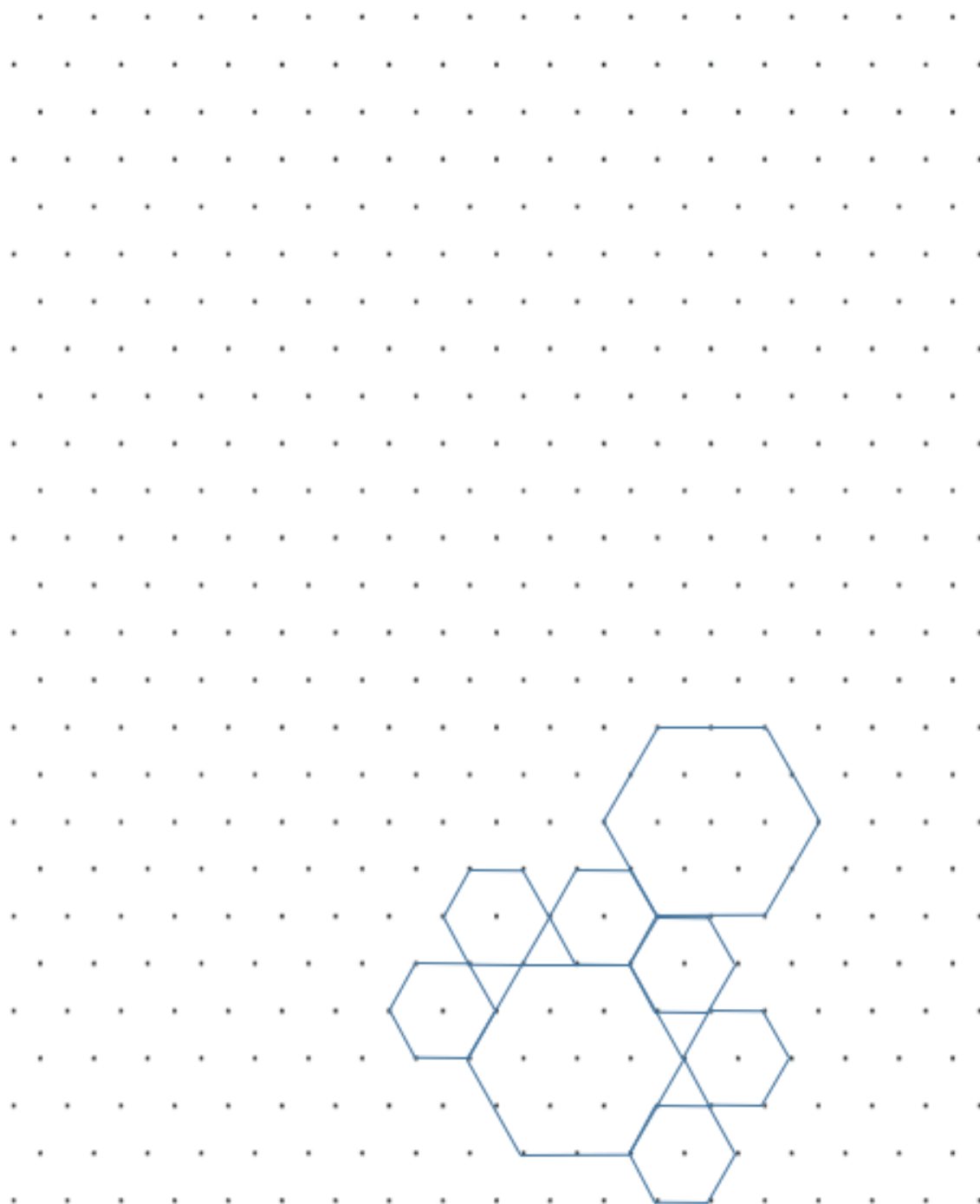
Further investigation:

Describe how you think the designer created the tessellating tiles from the square grid.

What is the area of the squares? How did you work it out?

What is the area of each stingray tile? How do you know?

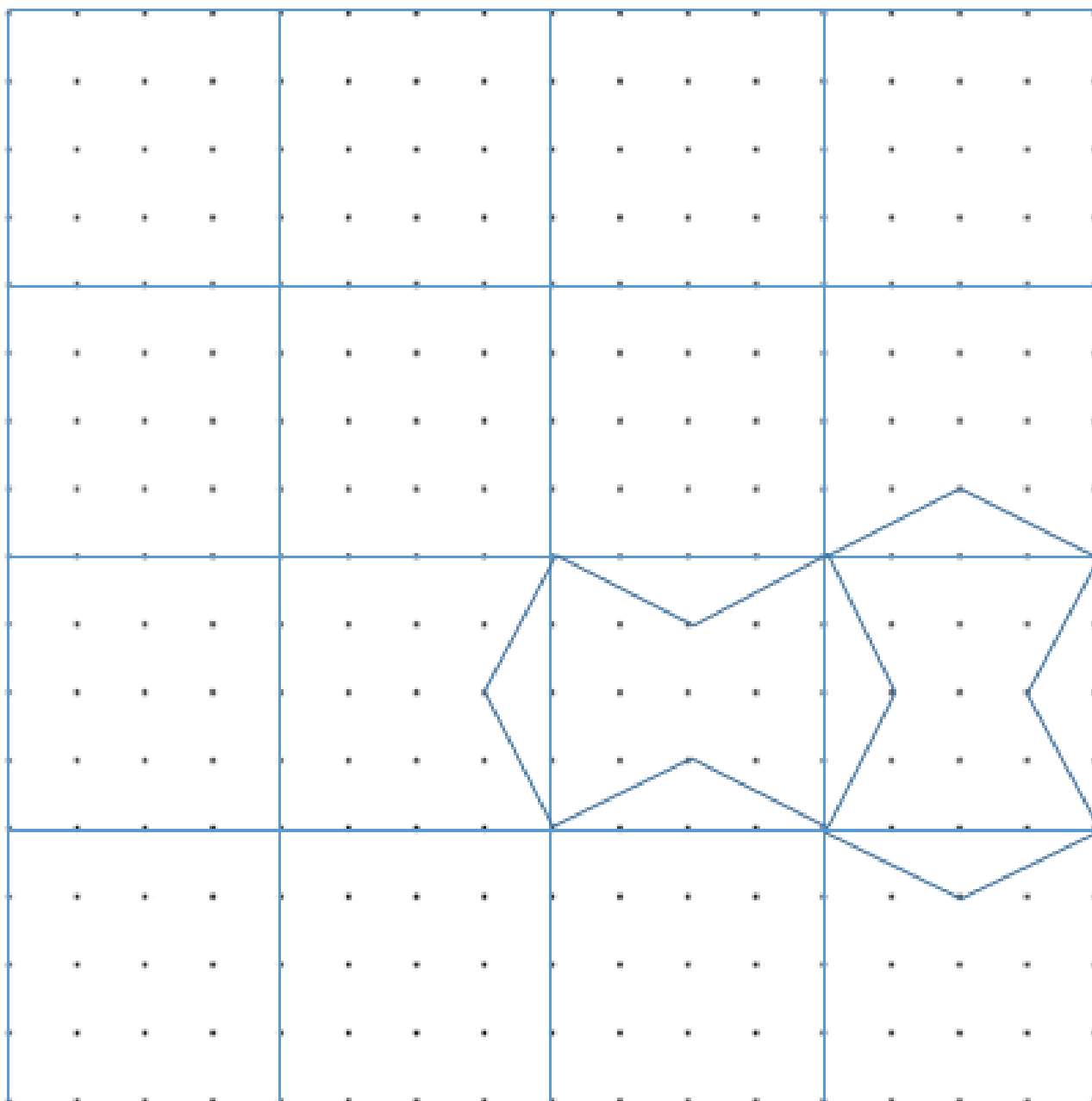
Complete the tessellation shown below.
Every large hexagon is bordered by small hexagons.



Further investigation:

Try colouring the design using the fewest number of colours, so that no adjacent shape has the same colour. What do you notice?

This tessellation is based on squares. It is made by removing congruent pieces from either side of the square and adding them to the other sides of the square. Complete the tessellation.



Further investigation:

What is the area of each square tile? What is the area of each butterfly?
What do you notice?

What is the perimeter of each square tile? What is the perimeter of each butterfly?
What do you notice?