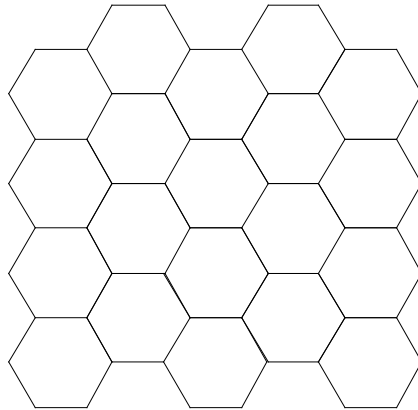
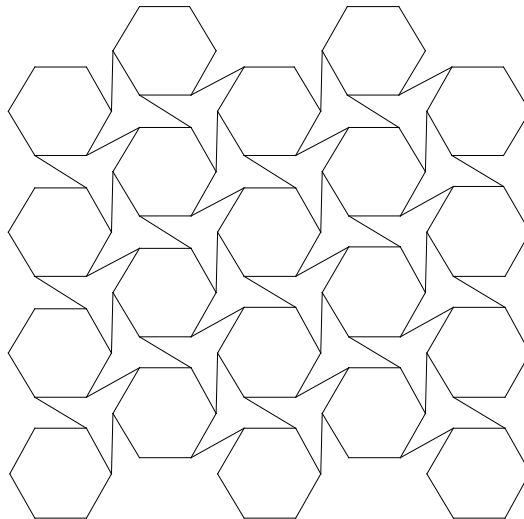


THE HEX-STAR TESSELLATION

You may have already seen tessellating regular hexagons like those below.



If the hexagons are all moved apart the same distance, a 'hex-star' tessellation may be created by joining corners of adjacent hexagons as shown.



1. Using Geo-Pro's regular 1 cm side length hexagon, reproduce a diagram similar to the one above. (Use grid lines or other parts of Geo-Pro to help you space the hexagons evenly.)
2. Investigate the effect of different spacings. You may be surprised with some of the tessellations produced.

Answers

THE HEX-STAR TESSELLATION

The effect of increasing the hexagon separation is illustrated below. Note that the stars become equilateral triangles at one stage. Decreasing the separation causes thinner stars, and eventually produces an all hexagon 'regular tessellation' when there is no separation.

