Construction of an Islamic Pattern

Make a circle with compass placed at a point on a line.

Make two circles with compass placed at points of intersection.

Make four circles with compass placed at new points of intersection.

Continue outward in all directions. [19 symmetrically placed circles]

The compass produces a network of circles.

Connect centers of circles.
Construction of an Islamic Pattern

A grid of equilateral triangles is the basis for many Islamic designs.

Artists designed patterns on the grid from center outward with no gaps or overlaps.

A grid of hexagons is embedded in the grid of equilateral triangles.