Art Design with Maths : do it on a sheet of paper or on the ground. #StreetMaths #MathsArt

Spider web

From regional education authority of Poitiers, France

Steps:

1) Built a square ABCD of side 12 cm. Draw its diagonals [AC] et [BD].

2) Place I in the middle of the line segment [AB], J in the middle of [BC], K in the middle of [CD] and L in the middle of [DA]. Then draw the line segment [IK] and [JL].

3) Place M in the middle of the line segment [AI] and Q in the middle of [KC]. Draw the line segment [MQ].

   Place N in the middle of the line segment [IB] and R in the middle of [DK]. Draw the line segment [NR].

   Place O in the middle of the line segment [BJ] and S in the middle of [LD]. Draw the line segment [OS].

   Place P in the middle of the line segment [JC] and T in the middle of [AL]. Draw the line segment [PT].

4) Through J, find the perpendicular segment of [OS], which cuts [OS] at U. Draw the line segment [JU].

   Through U, find the perpendicular segment of [BD], which cuts [BD] at V. Draw the line segment [UV]. Go on, always in the same direction.

6) Do the same perpendicular line drawing from I, L then K by turning always in the same direction.