

CMI Math Circle
Synopsis for September 06, 2026

Junior Batch

This Math Circle session was again divided into two distinct themes, which continued from a previous session.

Continuing on the ruler-and-compass constructions from the last session, the students attempted to construct regular polygons, specifically, equilateral triangles and squares.

Construction of equilateral triangles involves constructing three circles of the same radius.

Constructing a square is based on perpendiculars to line segment, this time at the end of the segment and not in the middle.

After these two activities, the students were given an open-ended exercise to discover the triangle inequality. Given three numbers a , b , c , can we draw a triangle with those sides.

After the break, we solved various problems on the addition and multiplication principles of counting choices that the students learned about the previous week. For the problems and details, please refer to the Cmi Math Circle worksheet and Synopsis dated August 30, 2026.

