# Maths Circle India: Module 8, Session 1 <br> Organized by Indian Statistical Institute <br> Session Date: 13th January, 2023 

## Rectangles Inside a Polygon

Suppose $P$ is a regular polygon with 418 sides. Consider all the quadrilaterals whose vertices are also vertices of $P$

Problem 3: How many of the above quadrilaterals are rectangles?

