



Bilkent University
Department of Mathematics

PROBLEM OF THE MONTH

Term: March 2023

Any two pupils in the school are either friends or not, the friendship is mutual. For each integer $1 \leq \ell \leq 111$ there is a school pupil having exactly ℓ friends in the school. Given that there is no triple of school pupils such that any two of them are friends, find the minimal possible number of pupils in this school.