RAM Maths Circle

Date: January 31, 2026
Swami Vivekanand School, Dombivli

In this session, the mentors discussed the following questions with the students.

1. On a 50 multiple choice question math contest, students receive 4 points for a correct answer, 0 points for an answer left blank, and -1 point for an incorrect answer. Chinmay's total score on the contest was 99. What is the maximum number of question that Chinmay could have answered correctly?

2. At a school there are 100 lockers numbered 1 to 100 and 100 students. Teachers told student no. 1 to open all lockers. Student no. 2 closed all 2 and its multiple number lockers. student no. 3 with 3 and its multiple number lockers. If a locker is closed, then open it, and if a locker is open, then close it. same for student no.4. This process continued till student no. 100. After this entire process, which numbered lockers will be open?

   - How many and which locker numbers are touched only twice?
   - Which students touched locker number 36, 48, and 84?