

RAM Maths Circle

Date: November 30, 2024
Swami Vivekanand School, Dombivli

In this session, the mentors discussed Langford pairing general form and asked the following questions.

- Replace the asterisks in $1 * 2 * 3 * 4 * 5 * 6 * 7 * 8$ with plus or minus such that the result is 0. Is it possible for $1 * 2 * 3 * 4 * 5 * 6 * 7 * 8 * 9 = 0$?
- A chunk of consecutively numbered pages has fallen out of a folder. The first page of the chunk has number 463, and the last has the same digits but in different order. How many sheets of paper were drop? (Each sheet is two pages with consecutive numbers.)

