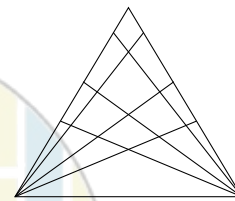
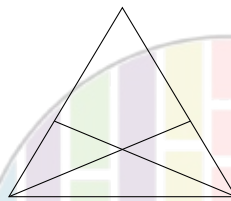
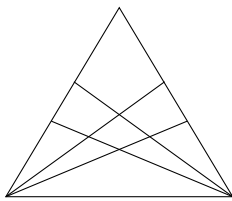


# RAM Maths Circle

Date: February 14, 2026  
Swami Vivekanand School, Dombivli

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

1. count the number of triangles.



2. There are 127 ₹1 coins with Pratik. He has 7 pouches to put the coins in. How can he arrange the coins in the pouches such that he can pay any amount from 1 to 127 without opening the pouches.
3. Two fair dice are rolled. In how many ways can we get the sum of the upper face to be  
i) 7 ii) 1 iii) 12 iv) 36
4. Consider a chessboard ( $8 \times 8$ ),
  - How many rooks can you arrange on the board such that no rook can attack each other.
  - How many bishops can you arrange on the board such that no bishop can attack each other.
  - How many kings can you arrange on the board such that no king can attack each other.
  - How many pawns can you arrange on the board such that no pawn can attack each other.
  - How many queens can you arrange on the board such that no queen can attack each other.