



COWS AND BULLS

AIM:

To assess participants' proficiency in both combinatorial thinking and mathematical problem-solving.

GENERAL GUIDELINE:

The main event is divided into 2 sub-rounds: Prelims and Mains.

ELIGIBILITY:

- (a) There will be three categories of students: 6th - 8th, 9th - 10th, 11th - 12th.
 - (b) In each category, a specific school can register only one team, and the team must consist of exactly three members.
-

GUIDELINE FOR PRELIMS:

- a) In this part, there are a total of 5 questions.
- b) Each question is numerical answer type with 2 marks allotted for correct answers, summing up to a total of 10 marks, and a deduction of 1 mark for incorrect responses.
- c) The top 5 teams will move on to the next round based on the marks obtained in this round.

RULES FOR PRELIMINARY ROUND:

- a) There will be a time limit of 20 minutes.
 - b) In case of tied scores, a comparison will be made based on the number of negative marks accumulated by each team.
-

GUIDELINE FOR MAINS:

We will start the game with a predetermined 4-digit number, with each digit ranging from 0 to 9. Teams must guess this number by the end of the game, following the procedures outlined in the rules below.

RULES FOR MAINS:

- a) Teams will receive four numerical answer-type questions. The solutions to these questions represent the digits of the pre-determined 4-digit number. However, the order of these digits is undisclosed, creating uncertainty for teams about both the correctness of their identified answers and the accuracy of their order.
- b) Following the determination of four answers, teams will randomly arrange them.
- c) Teams are to communicate their guessed number to their designated volunteer.
- d) Volunteers will provide hints using the "Cows and Bulls" game rules.
- e) A "Bull" denotes a correct digit in its correct position and a "Cow" indicates a correct digit but positioned incorrectly.
- f) For example- If the correct number is 4756 and the team's guessed number is 4536, the hint would be "2 Bulls and 1 Cow."
- g) This process will continue until a team successfully guesses the correct number.
- h) The team that guesses the full 4-digit number correctly first will be declared the winner.
- i) **Note-** The predetermined 4-digit number does not have any repeated digits.
- j) In the event that multiple teams guess the number at the same time, we will determine the winner based on the number of attempts made.

CONTACT:

Samhita Choudhury (8811940577), Somnath Kumar (7551816411).
Anjali Maurya (7754064266).
