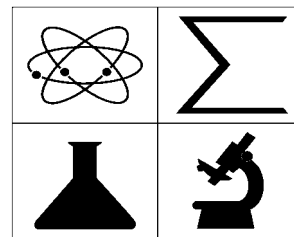


MESA DAY CONTEST RULES 2003-2004



Team Math Quest

LEVEL:	Senior High School
TYPE OF CONTEST:	Team
COMPOSITION OF TEAM:	3 students per team; teams are school site based
NUMBER OF TEAMS:	3 teams per Center
SPONSORS:	Lourdes Almeida, Director, UC Irvine MSP Center Larry Lim, Director, USC MSP Center

OVERVIEW: Students will work as a team to solve a set of challenging, non-routine problems that will require core mathematical knowledge, creative deductive abilities, and collaborative reasoning skills. The competition is designed to introduce, develop, and foster the use of various strategies to solve exciting and complex mathematical problems.

COURSE LEVELS: It is recommended that teams have members representing the various high school mathematics course levels because the set of questions will range from algebra to pre-calculus.

MATERIALS: The following items will be provided by the Host Center:

- Set of math problems
- Pencil
- One Evaluation Form per team attached to a 10" x 13" envelope

The following item will be provided by the team:

- 1 Calculator (Only non-qwerty keyboard calculators are allowed.)

RULES: Violation of any of the following rules will result in disqualification

- 1) Teams are given 50 minutes to solve as many problems as possible.
- 2) Books or any other resource materials cannot be used during the exam.
- 3) The team information section (e.g. name, school name, grade level, etc.) of the Evaluation Form must be filled out completely.
- 4) Scratch paper will not be allowed. Each problem will be printed on separate sheets of paper. Team members are to use both sides of this sheet to solve the problem.

- 5) Students must follow Guideline #3 to turn in solved problems.
- 6) An answer cannot be changed or altered once it has been submitted.
- 7) A team cannot have more than 5 problems at their desk at any time during the competition.
- 8) Only answers clearly written on the Evaluation Form will be judged. If applicable, answers must be in reduced form and with appropriate units of measurement.
- 9) Should a student not show up on the day of the competition, the team will compete with the remaining original team members.

GUIDELINES:

- 1) Initially, each team will be given the same 5 problems.
 - a) Each problem will be printed on separate sheets of paper. Team members are to use both sides of this sheet to solve the problem. Scratch paper will not be allowed.
 - b) The strategy the team uses to answer the questions will vary by group. For example, one team may decide to have one person work on problem #3, while the other two people work on problem #4, while another team may decide to have all three members work on problem #5.
- 2) Each team is assigned an Evaluation Form that is attached to a 10" x 13" envelope. This envelope will be placed at the front of the room with a judge monitoring the area.
- 3) **TURNING IN A PROBLEM FOR SCORING:**
Once a problem is solved, one student from the team will submit the answer by following the procedure:
 - a) One student from the team will write the answer on the Evaluation Form assigned to the team and then place the completed problem inside the envelope.
 - a) Once the answer is written on the Evaluation Form and the problem is placed inside the envelope, the judge will give the student the next problem.
 - b) An answer cannot be changed once it is submitted.
 - c) A team should have 5 problems at their desk at all times (unless the team has completed all the problems).
- 4) All teams will receive the same problems in the same order.

JUDGING:

- 1) The team score is calculated according to the following formula:
$$\text{Team Score} = (\# \text{ correct responses} \times 4) - (\# \text{ incorrect responses} \times 1)$$
- 2) A tiebreaker procedure is included in the Directors' Guideline Manual.

AWARDS:

Medals for 1st, 2nd, and 3rd place for each member of a winning team.

ATTACHMENTS: Evaluation Form

EVALUATION FORM - TEAM MATH QUEST CONTEST

Team Information		School: _____	Center: _____
Student Names	Grade	Current Math Class	
_____	_____	_____	
_____	_____	_____	
_____	_____	_____	

Question #	Team Answer
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

NOTE:
During the competition, FOLD THIS PAPER along the dotted line to ensure your answers are not exposed to the other teams.

For Judges' Use Only

_____ # correct answers	x 4 =	_____
_____ # incorrect answers	x 1 =	Subtract: - _____
TOTAL		