

MESA DAY CONTEST RULES 2014-2015

Team Math Quest

LEVEL: Senior High School (Grades 9-12)

TYPE OF EVENT: Team by Math Category

COMPOSITION OF TEAM: 3 Students per school-based team

NUMBER OF TEAMS: Preliminary – Determined by your MESA Center

Regional – 3 teams per category per MESA Center

SPONSOR: Marvin Maldonado, San Diego State University MSP

OVERVIEW: Students work as a team to solve a set of challenging, non-routine problems

the require core mathematical knowledge, creative deductive abilities, and collaborative reasoning skills. The event is designed to introduce, develop, and foster the use of various strategies to solve exciting and complex

mathematical problems.

CATEGORIES: CATEGORY FOR STUDENTS CURRENTLY ENROLLED IN:

CATEGORY	FOR STUDENTS CURRENTLY ENROLLED IN:
Α	Algebra 1 or Geometry
K	Algebra 2, Trigonometry, Math Analysis/Pre-Calc, Calculus or any combination of these

MATERIALS: The Host Center provides the following:

- 1 Set of math problems per team
- 1 Score Sheet per team
- Pencils

The team provides the following:

Calculators (Acceptable calculators are described in Rule #3.)

RULES:

- 1) A team is composed of **3** students from the same school site. All three members must be eligible to participate in the same category.
- 2) Teams are given **50 minutes** to solve as many problems as possible from a **set of 30**. Problems do not need to be solved in numerical order.
- 3) Only non-QWERTY calculators are permissible and must be supplied by the team. Calculators that have typewriter-like keyboards, require an electrical outlet, make noises, or use paper are not permitted. Additionally, devices with embedded calculator functions such as cell phones, iPod/iPad, laptops or tablet computers are strictly prohibited.

MESA DAY CONTEST RULES 2014-2015

Master Set

©University of California Regents

- 4) Books, mathematical tables, or other resource materials cannot be used during the test.
- 5) The *Team Information* section of the Score Sheet must be legible and thoroughly completed.
- 6) Scratch paper is not allowed. Each problem is printed on a separate sheet of paper. Team members may use both sides of this sheet to solve the problem. **Any work done on this sheet will not be used for scoring purposes**
- 7) Only answers clearly written on the Score Sheet are judged. *Answers must be in reduced form and with appropriate units of measurement.*

EVENT PROCEDURE:

- Before beginning the timed event, a proctor will briefly review the event guidelines with all student participants, verify that only non-QWERTY calculators are present, and distribute pencils.
- 2) Each team will be given a Score Sheet. Per Rule #5, each team is responsible for legibly and thoroughly completing the *Team Information* section at the top of the Score Sheet.
- 3) Each team will be given the appropriate set of 30 problems in a manila file folder or large clasp envelope. Per Rule #6, scratch paper will not be provided.
- 4) Once a problem is solved, the team must record the answer in the corresponding space on the Score Sheet and continue with problem solving until the end of time is called.
- 5) The proctor will announce when 5 minutes and 1 minute remain.

SCORING:

1) Each correct answer is worth **4 points**. Each incorrect answer is penalized **1 point**. Non-responses, or blanks, will not be scored. The final team score is calculated as follows:

Team Score = (# of correct answers x 4) - (# incorrect answers)

- 2) In the event of a tie, a tie breaking procedure will be implemented to determine placing.
- 3) Awards will not be given to teams with zero or negative scores.

AWARDS:

- *Preliminary event*: Medals will be awarded to each member of the 1st, 2nd, and 3rd place teams in each category.
- Regional event: A school trophy will be given to the 1st, 2nd, and 3rd place teams in each category. Additionally, each winning team member will receive a corresponding medal.

ATTACHMENTS:

Sample Score Sheet

TEAM MATH QUEST SAMPLE SCORE SHEET Senior High School

	TE	AM INECDMATION		
	I E	EAM INFORMATION		
School:			Center:	
Student Names:		Grade:	Current Math Class:	
1				
2				
3				
Notes All angu	are must be in reduce	nd form and include an	proprieto unito of m	ozcuromont
Team Answer	# #	ed form and include ap Team Answer	# #	Team Answer
	11		21	
	12		22	
	13		23	
	14		24	
	15		25	
	16		26	
	17		27	
	18		28	
	19		29	
	20		30	
	FOI	R JUDGE'S USE ONLY		
	correct answers	x 4 =		
#	Correct answers	minus		
	ncorrect answers include non-responses)	x 1 =		

SCORE