

# MESA DAY CONTEST RULES 2015-2016

### **Team Math Quest**

**LEVEL:** Middle/Junior High School (Grades 6 & 7)

**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 J. Maldonado, UC Irvine 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.

LEVEL: THE FOLLOWING LEVELS ARE COVERED ON THE EXAM:

General Math, Pre-Algebra, Algebra 1

**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 in grade 6 or 7 to participate in this competition.
- 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.
- 4) Books, mathematical tables, or other resource materials cannot be used during the test.

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Master Set

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- 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 will be judged. *Answers must be in reduced form and with appropriate units of measurement.*

#### **EVENT PROCEDURE:**

- 1) 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 =  $(\# \text{ of correct answers } x \ 4) - (\# \text{ incorrect answers})$ 

- 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*: First, second, and third place will be awarded in each grade level, 6 and 7. Teams will be judged based on the highest grade level of any team member. (Example: A team consisting of two 6<sup>th</sup> graders and one 7<sup>th</sup> grader will be judged in the 7<sup>th</sup> grade level.)
- Regional event: Same as preliminary, but there are two different categories: Delegates and At-Large. Delegates are the winning prelim teams from each center. At-Large teams are all other 6<sup>th</sup>-7<sup>th</sup> grade students advancing to Regionals in other competitions.

#### **ATTACHMENTS:**

Sample Score Sheet

## TEAM MATH QUEST SAMPLE SCORE SHEET

Middle/Junior High School

	TF	AM INFORMATION		
School			Contor	
School:Student Names: Gr		Grade:		
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2				
3				<del></del>
Note: All appe	ware must be in reduce	d form and include as	anyonyiata unita of m	
Team Answer	wers must be in reduce	Team Answer	#	Team Answer
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	12		22	
	13		23	
	14		24	
	15		25	
	16		26	
	17		27	
	18		28	
	19		29	
	20		30	
	FOI	R JUDGE'S USE ONLY	,	
	t correct answers	x 4 =		

SCORE