

TEAM MATH QUEST – MASTER KEY

2013 Junior MESA Day

TEAM INFORMATION			
School: _____	MASTER KEY	Center: _____	MESA
Student Names:	Grade:	Current Math Class:	
1 _____	_____	_____	
2 _____	_____	_____	
3 _____	_____	_____	
4 _____	_____	_____	

Note: All answers must be in reduced form and include appropriate units of measurement.

#	Team Answer	#	Team Answer	#	Team Answer
1	18 drops	11	$6\frac{3}{8}$ ft	21	3
2	3.5×10^{-6} mm	12	40° C	22	3 sacks
3	$\frac{1}{(-x+3)^3}$	13	$\frac{5}{2}\sqrt{2}$	23	8 inches
4	25 feet	14	44 seconds	24	1
5	$-2a^5b^2$	15	980 cars	25	$4x(3x^2 + 2x + 1)$
6	$145^\circ \text{ F} < t < 155^\circ \text{ F}$	16	\$205	26	50
7	4π	17	$2\frac{3}{7}$ ft	27	7.5(or 7 ½) hours
8	32 drops	18	\$1634	28	64
9	123 feet	19	$y = x + 2$	29	$-\frac{5}{4} \pm \frac{\sqrt{33}}{4}$
10	7	20	20	30	4 mL

FOR JUDGE'S USE ONLY					
# Correct answers		x 4 pts	=		
<i>minus</i>					
# Incorrect answers <i>(do not include non-responses)</i>		x 1 pt	=		
TOTAL SCORE					