"Math is Cool" Masters – 2010-11

December 11, 2010

Final Score: 1-15	Final Score: 16-30	Final Score: 31-40
KEY	KEY	KEY

STUDENT NAME: _____   School Name: _____

Proctor Name: _____   Team #: _____ Room #: _____

ALGEBRA 2, PRECALCULUS, CALCULUS   High School Individual Contest – Score Sheet

DO NOT WRITE IN SHADED REGIONS

	Answer	1 or 0	1 or 0
1	12		
2	27		
3	753.02		
4	26		
5	(9,9)		
6	630 [km]		
7	19		
8	122 [°]		
9	20 [diag]		
10	486 [cm^2]		
11	8π [m]		
12	5		
13	4		
14	6 [students]		
15	1180		
1-15 TOTAL:			

	Answer	1 or 0	1 or 0
16	$50\sqrt{2}$		
17	2.345×10^2		
18	29		
19	1770 [comb]		
20	17 [times]		
21	45 [comb]		
22	7 [batches]		
23	64		
24	-3		
25	3		
26	3/10		
27	12 [creatures]		
28	69 [km]		
29	1.6 [hrs]		
30	-597 + 122i		
16-30 TOTAL:			

	Answer	1 or 0	1 or 0
31	30		
32	$6 + 4\sqrt{3}$ [m]		
33	3888		
34	$48 + 24\sqrt{2}$ [cm]		
35	WSTUVR		
36	541229		
37	10 [ways]		
38	48 [elements]		
39	104 [rectangles]		
40	52 [hens]		
31-40 TOTAL:			

Algebra 2, PreCalculus & Calculus

"Math is Cool" Masters – 2010-11
December 11, 2010

Final Score: 1-15	Final Score: 16-30	Final Score: 31-40

STUDENT NAME: _____ **School Name:** _____

Proctor Name: _____ Team #: _____ Room #: _____

ALGEBRA 2, PRECALCULUS, CALCULUS   **High School Individual Contest – Score Sheet**
DO NOT WRITE IN SHADED REGIONS

	Answer	1 or 0	1 or 0
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
1-15 TOTAL:			

	Answer	1 or 0	1 or 0
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
16-30 TOTAL:			

	Answer	1 or 0	1 or 0
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
31-40 TOTAL:			

Algebra 2, PreCalculus & Calculus

"Math is Cool" Masters – 2010-11

December 11, 2010

STUDENT NAME: _____ School Name: _____

Proctor Name: _____ Team #: _____ Room #: _____

PREALGEBRA, ALGEBRA & GEOMETRY   Individual Contest – Score Sheet

DO NOT WRITE IN SHADED REGIONS

	Answer	1 or 0	1 or 0
1	2,360		
2	140		
3	.69 or 0.69		
4	288/7		
5	14		
6	262.5		
7	$5a^3b^2$, 5aaabb, or equivalent		
8	1680		
9	13		
10	5		
11	3 [units]		
12	-3/4		
13	70 [°]		
14	12 [feet]		
15	11 [inches]		
1-15 TOTAL:			

	Answer	1 or 0	1 or 0
16	72 [ways]		
17	6 [factors]		
18	[x =] 5		
19	81/2 [m^2]		
20	3		
21	(x+17)(x-1)		
22	90 [arrangements]		
23	10		
24	$2646_{[7]}$		
25	25920 [in^3]		
26	$y = 2x + 8$		
27	64 [fish]		
28	35 [ways]		
29	64π [in^2]		
30	16		
16-30 TOTAL:			

	Answer	1 or 0	1 or 0
31	40/11		
32	35 [paths]		
33	45		
34	–4320		
35	$2\sqrt{30}$ [cm]		
36	13		
37	[$0] .25		
38	16 [factors]		
39	$\dfrac{-5+\sqrt{41}}{2}$		
40	9/44		
31-40 TOTAL:			

PreAlgebra, Algebra & Geometry

"Math is Cool" Masters – 2010-11

December 11, 2010

Final Score: 1-15	Final Score: 16-30	Final Score: 31-40

STUDENT NAME: _____ **School Name:** _____

Proctor Name: _____ Team #: _____ Room #: _____

PREALGEBRA, ALGEBRA & GEOMETRY   Individual Contest – Score Sheet

DO NOT WRITE IN SHADED REGIONS

	Answer	1 or 0	1 or 0
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
1-15 TOTAL:			

	Answer	1 or 0	1 or 0
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
16-30 TOTAL:			

	Answer	1 or 0	1 or 0
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
31-40 TOTAL:			

PreAlgebra, Algebra & Geometry