

# "Math is Cool" Masters - 2011-12

December 3, 2011

Final Score: 1-15

**KEY**

Final Score: 16-30

**KEY**

Final Score: 31-40

**KEY**

**STUDENT NAME:** \_\_\_\_\_ **School Name:** \_\_\_\_\_

**Proctor Name:** \_\_\_\_\_ **Team #:** \_\_\_\_\_ **Room #:** \_\_\_\_\_

## PreCalculus & Calculus High School Individual Contest - Score Sheet

**DO NOT WRITE IN SHADED REGIONS**

	Answer	1 or 0	1 or 0
1	6		
2	46		
3	6		
4	$-\pi/6$		
5	19/48		
6	5/11		
7	6		
8	$26\pi$		
9	1/3		
10	91		
11	Scalene		
12	$5.73 \times 10^{-3}$		
13	-3		
14	$4\sqrt{6}$ [m <sup>2</sup> ]		
15	931		
<b>1-15 TOTAL:</b>		<input type="text"/>	<input type="text"/>

	Answer	1 or 0	1 or 0
16	$3\pi/80$		
17	1440 [ways]		
18	-1792		
19	2030		
20	$-3074i$		
21	3/32		
22	91		
23	5184		
24	2/15		
25	$3j^3 - j + 4$		
26	285		
27	1/2		
28	9/2		
29	$(-2, -3)$		
30	139		
<b>16-30 TOTAL:</b>		<input type="text"/>	<input type="text"/>

	Answer	1 or 0	1 or 0
31	5419		
32	5/16		
33	5		
34	70 [circles]		
35	$7\sqrt{193}/16$		
36	9		
37	9/14		
38	10		
39	28		
40	0		
<b>31-40 TOTAL:</b>		<input type="text"/>	<input type="text"/>

**PRECALCULUS & CALCULUS**

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	Answer	1 or 0	1 or 0
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
<b>1-15 TOTAL:</b>		<input type="text"/>	<input type="text"/>

	Answer	1 or 0	1 or 0
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
<b>16-30 TOTAL:</b>		<input type="text"/>	<input type="text"/>

	Answer	1 or 0	1 or 0
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
<b>31-40 TOTAL:</b>		<input type="text"/>	<input type="text"/>

**PRECALCULUS & CALCULUS**