



Knights of Pi Math Tournament – Dec. 4, 2010

Individual Test 7th/8th

Name Key

Grade _____

School _____

Team Number _____

#	Answer	0/1	0/1
1	3700 or 3.7×10^3		
2	105		
3	52		
4	5		
5	(0, 3)		
6	1500		
7	6		
8	1 [head]		
9	1.21		
10	[x =] 8		
11	28		
12	10		
13	2		
14	8 [units]		
15	[x/z =] 9/49		
16	5 [blue marbles]		
17	24 [ways]		
18	8 [factors]		
19	23		
20	$x > 59/2$ or $59/2 < x$		
Subtotal 1			

#	Answer	0/1	0/1
21	4 [apples]		
22	$100 - 25\pi$ [units ²]		
23	75 [°]		
24	(3,5) and (8,0)		
25	[a =] 3		
26	-1/3		
27	27 [values]		
28	19/10		
29	25/72		
30	13 [units]		
31	0 [true]		
32	(1/2, 5, -5)		
33	[tanθ =] 3/4		
34	[x/y =] 3 and -3		
35	32/39		
36	$8\pi + 12\sqrt{3}$ [units ²]		
37	1/6		
38	$\sqrt{2} - 1$ [units]		
39	37/216		
40	[ad + bc =] $\pm \sqrt{3}/2$		
Subtotal 2			

First Score	Final Score
/40	/40