



Knights of Pi Math Tournament – Dec. 4, 2010

Individual Test 5th/6th

Name Key

Grade _____

School _____

Team Number _____

#	Answer	0/1	0/1
1	4 [<i>sides</i>]		
2	600		
3	10		
4	-2		
5	15 [<i>bananas</i>]		
6	60		
7	16 [<i>feet</i>]		
8	28		
9	5 [<i>ways</i>]		
10	44 [<i>units</i>]		
11	297		
12	11		
13	18 [<i>students</i>]		
14	6 [<i>handshakes</i>]		
15	41 [<i>squares</i>]		
16	(4, 5) and (2, 11)		
17	<i>Tuesday</i>		
18	8 [<i>factors</i>]		
19	1440 [<i>minutes</i>]		
20	[<i>x =</i>] 19		
Subtotal 1			

#	Answer	0/1	0/1
21	9 [<i>diagonals</i>]		
22	[<i>x =</i>] 1		
23	4 [<i>ordered pairs</i>]		
24	50 [<i>cents</i>]		
25	1/10		
26	[<i>n =</i>] 73		
27	23 [<i>ways</i>]		
28	924		
29	49/4		
30	668		
31	126 [<i>units</i> ³]		
32	<i>D</i>		
33	10 [<i>ways</i>]		
34	36/41		
35	$(1 + \sqrt{3})/2$ or $1/2 + \sqrt{3}/2$ [<i>units</i> ²]		
36	[<i>x =</i>] 512 or 2 ⁹		
37	4/5		
38	3/1100		
39	$(13\sqrt{3})/4$ [<i>units</i> ²]		
40	0 [<i>arrangements</i>]		
Subtotal 2			

First Score	Final Score
/40	/40