



University Maths  
Olympics 2014

# Answer Sheet

Note: Units are not required

Qn	Answer	Notes
1	5 km/hr	
2	3	
3	$1/1024$	$1/2^{10}$ or equivalent
4	54	
5	74	
6	10,000	
7	$\sqrt{5/3}$	Or equivalent
8	30	$n=6, m=5$
9	34 and 94	
10	1	All pts on z-axis
11	$1/10$	
12	$3/4$	
13	$75/11$	

Qn	Answer	Notes
14	$-2/5$	
15	48	
16	$90\pi+9\sqrt{3}$	Or equivalent
17	$5\sqrt{6}-10$	Or equivalent
18	18	
19	45	
20	$\sqrt{(1+\sqrt{5})/8}$	Or equivalent