Angle Pairs – Paper 2 – Mark Scheme

Question 1

22110	11 1							
22	2.5 oe			3		B2 $180 = 5x + 2x + x$ oe or better		
						B1 for $2x$ or $6x$ marked in the correct place on the diagram		
estio	on 2			_		ulagia	1 111.	
00110		105			•			100 55 50
4		105			or		M1 for $180 - 55 - 50$ or B1 for 55 or 75 seen in the correct angle inside the triangle	
estio	on 3			i		1		
3 125					2		B1 for 55 or 125 in any other correct position on diagram or M1 for 180–55	
estio	n 4				1			
(a)		47			1			
(b)		117			2	M1 for		360 - (115 + 85 + 97)
(c)		244			2	B1 for 116 seen at centre or 122 seen at circumference		
estio	n 5			!		_		
[a =] 70 [b =] 40				2	B1	or each		
estio	on 6		i		1			
		25				В	B1 for 67 or 113 seen once in correct position	
						01	or M1 for $a + 42 = 67$ or $a + 42 + 113 = 180$ or better	
estio	on 7	1		i				
5	9	94					2	B1 for <i>ACB</i> or <i>PAB</i> or <i>ABC</i> = 43
								or M1 for $180 - 2 \times 43$ or $\frac{1}{2}x = 90 - 43$
	estic (a) (b) (c) estic estic	estion 2 estion 3 3 125 estion 4 (a) (b) (c) estion 5 [a [b] estion 6	22.5 oe estion 2 105 estion 3 3 125 estion 4 (a) 47 (b) 117 (c) 244 estion 5 $[a =] 70$ $[b =] 40$ estion 6 25 25	22.5 oe estion 2 105 estion 3 3 125 estion 4 (a) 47 (b) 117 (c) 244 estion 5 $[a =] 70$ $[b =] 40$ estion 6 25 25	22.5 oe 3 estion 2 105 estion 3 125 estion 4 (a) (a) 47 (b) 117 (c) 244 estion 5 2 estion 6 25 estion 7 2	22.5 oe 3 estion 2 105 2 estion 3 1 2 estion 4 47 1 (a) 47 1 (b) 117 2 estion 5 2 estion 6 25 2 estion 7 25 2	22.5 oe 3 B2 18 B1 fo estion 2 105 2 M1 or ins 105 2 M1 or estion 3 125 2 estion 4 2 B1 or 0 (a) 47 1 1 (b) 117 2 M1 or (c) 244 2 B1 cir estion 5 2 B1 for ea estion 6 25 2 B estion 7 0 0 0	22.5 oe 3 B2 180 = B1 for 2x diagram. estion 2 105 2 M1 for or B1 inside t estion 3 2 B1 for 0 r B1 inside t 3 125 2 B1 for 0 r B1 inside t (a) 47 1 1 (b) 117 2 B1 for or circum estion 5 2 B1 for each 1 estion 6 25 2 B1 for each estion 7 2 B1 for or M1