Topic Test 1 Mark Scheme

Algebra and graphs - Foundation

Q	Answer	Mark	Comments
1(a)	6	B1	
1(b)	31	B1	
1(c)	–1.5	B1	
2(a)	4 and x = 2 drawn or point (2, 4) clearly marked.	B1	
2(b)	2.1 or 2.2 and y = 5 drawn or point ([2.1, 2.2], 5) clearly marked.	B1	
2(c)	1 and y = –2 drawn or point (1, –2) clearly marked.	B1	
3	$5x - 3 = 3x + 4$	M1	
	$2x = 7$	M1 dep	
	3.5	A1	
4	$x + 2 + \frac{1}{2}(x + 2) = 54$	B1	
5(a)	$5x + 5x + 4x + 3x + 2x + x$ = 4 × 180 or 720	M1	
	$20x = 720$	M1dep	
	36	A1	
5(b)	$5x = 5 \times 36 = 180$, so two angles are straight lines. The shape is actually a quadrilateral with angles, 144, 108, 72 and 36	B1	

Q	Answer	Mark	Comments
6	(4, 6)	B1	
7(a)	$2\frac{1}{2}$	B1	
7(b)	$4\frac{1}{2}$ and $1\frac{1}{2}$	B1	
7(c)	$\frac{3}{4}$	B1	
7(d)	$1\frac{1}{2}$	B1	