

# Topic Test 2 Mark Scheme

## Inequalities - Foundation

Q	Answer	Mark	Comments
1	C	B1	
2	$B = \{-2, -1, 0, 1, 2\}$	B1	
3	$-2 < x \leq 4$	B1	
4	$4x > 17$	M1	
	$x > 4.25$	A1	
	5	A1	
5	$6x > 9$	M1	
	$x > 1.5$	A1	
6(a)	$-3 \leq 3x$ or $3x > 13$	M1	
	$-1 \leq x$	A1	
	$x < 4\frac{1}{3}$	A1	oe eg $\frac{13}{3}$
6(b)	-1, 0, 1, 2, 3	B1	
7	$6x + 8 + 4x - 6$	M1	oe
	Their $(10x + 2) \leq 55$	M1 dep	oe
	$x \leq 5.3$ or Max $x = 5.3$	M1	
	151 (.24)	A1	

Q	Answer	Mark	Comments
8	$x + 3 + 2x + 4 > 10$	M1	
	$x > 1$ or $a = 1$	A1	
	$x + 3 + 10 > 2x + 4$ or $+ 2x + 4 + 10 > x + 3$	M1	
	$x < 9$ or $b = 9$	A1	