Distance Time Graphs Mark Scheme		
1	Charlie leaves home at 09:00 and then stops 6 miles from home.	[1] Distance travelled
	He stops for 2 hours, then walks at an average speed of 4 mph, until 13:00.	[1] Speed calculated
	He stops for 1 hour, then walks backwards at 14:00.	[1] Direction mentioned
	From 15:00 to 17:00 he walked forwards 3 miles before walking back 3 miles but at twice the speed	[1] Correct comment about final part of the journey / correct calculation for speed
2(a)	Same distance travelled by both Katherine and Julia	[1]
2(b)	6 mph	[1]
2(c)	2 hours 30 minutes	[1] Accept 2.5 hours
3(a)	14 + 6 + 12 = 32 km	[1]
3(b)	Straight line back to her start point	[1]
	The line should meet the <i>x</i> -axis at 10:40	[1]
4	60 mph for 10 mins 10 min rest 4 miles in 20 mins 6 miles in 10 mins 20 min rest	[1] mark for highest speed[1] for both rest times noted[1] for any other correct description
	Total distance covered = 40 miles	[1] for total distance covered
	Returns home over a 30 min period, speeding up for the last 10 mins	[1] mark awarded for correct interpretation of outward and return journey

