Do not write outside the box

0 1.1	Which of these is a scalar quantity? [1 mark]						
	Tick one box.	」					
	displacement						
	distance						
	force						
	velocity						
0 1.2	A woman cycled along a straight flat road.						
	Figure 1 shows how the woman's velocity changed with time.						
	Figure 1						
	Velocity in m/s 3						
	Which part of the graph shows the woman moving at constant velocity? [1 mark]						
	Tick one box.						
	BC CD DE						



0 1.3	Which part of the graph shows the woman stationary?				
	Tick one box.				
	BC CD DE				
	Between points A and B the woman was accelerating.				
0 1.4	Use Figure 1 to determine the total time for which she was accelerating.	[1 mark]			
	Time =	s			
0 1.5	Use Figure 1 to determine her increase in velocity between points A and B .	[1 mark]			
	Increase in velocity =	m/s			
0 1.6	Calculate her acceleration between points A and B .				
	Use the equation:				
	acceleration = change in velocity				
	time taken	[2 marks]			
	Acceleration =	m/s²			
	Question 1 continues on the next page				



0 1.7	Estimate how a typical cycling speed of 6 m/s compares with a typical walking speed. [1 mark] Tick one box.	Do not write outside the box
	about twice as fast	
	about four times faster	
	about eight times faster	
		8



Question	Answers	Extra information	Mark	AO / Spec. Ref.
01.1	distance		1	AO1 6.5.1.1
01.2	ВС		1	AO3 6.5.4.1.5
01.3	DE		1	AO3 6.5.4.1.5
01.4	5.0 (s)	allow 5 (s)	1	AO2 6.5.4.1.5
01.5	6.0 (m/s)	allow 6 (m/s)	1	AO2 6.5.4.1.5
01.6	6.0 / 5.0 = 1.2 (m/s ²)	an answer of 1.2 scores 2 marks allow ecf from questions 01.4 and 01.5	1	AO2 6.5.4.1.5
01.7	about four times faster		1	AO2 6.5.4.1.2
Total			8]