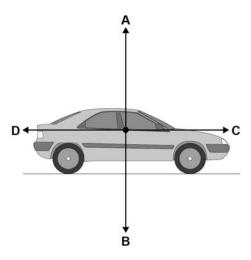
0 1 Figure 1 shows the forces acting on a car moving at a constant speed.

Figure 1



0 1 . 1	Which force would have to increase to make the car accelerate?	
		[1 mark]
	Tick one box.	

A	
В	
С	
D	

0 1 . **2** The car travels a distance of 2040 metres in 2 minutes.

Use the following equation to calculate the mean speed of the car.

$$mean \ speed = \frac{distance}{time}$$

[2 marks]

Mean speed = ____ m/s

0 1	. 3	The car makes an emergency stop.						
Figure 2 shows the thinking distance and braking distance of the car.								
Figure 2								
Thinking distance = 12 m		m	Braking distance = 24 m					
		What is the sto	pping distance	9?		[1 mark]		
0 1	. 4	The person driv What effect will Tick one box fo	this have on the thinking distant	he thinking distar	nce and braking distance?			
						[2 marks]		
		de	ecreases	increases	stays the same			
thinking distance								
bra	aking dist	tance						
Turn over for the next question								

DRAFT SPECIMEN MATERIAL Turn over ▶

Question 1

Question	Answers	Extra information	Mark	AO / Spec. Ref.
01.1	С		1	AO1/1
				6.5.1.2
01.2	2040 / 120		1	AO2/1
	17 (m/s)		1	6.5.4.1.2
		allow 17 (m/s) with no working shown for 2 marks		
01.3	the thinking distance and the	accept 36 m	1	AO2/1
	braking distance combined			6.5.4.3.1
01.4	thinking distance increases		1	AO1/1
	braking distance stays the same		1	6.5.4.3.1/2
Total			6]