

Question number	Answer	Notes	Marks
2 (a)	clear recognition that stationary is the horizontal sections; 3.5 (minutes);	seen on graph or in working e.g. use of 1.5 or 2 allow 3½	2
(b)	A; idea of line having smallest gradient;	allow 'line is shallowest' / 'least steep' etc. allow calculated speeds	2
(c) (i)	(average) speed = distance (moved) / time (taken);	allow in standard symbols or in words e.g. $s = d/t$ OR $v = s/t$	1
(ii)	substitution; evaluation; matching unit; e.g. (speed =) 200 / 60 (speed =) 3.3 m/s	must match units used in calculation allow 3, 3.33, 3.333 etc. condone 3.34 200 metres per minute receives 3 marks 12 km/h (condone kph) receives 3 marks 200 m/s receives 2 marks allow any suitable unit of speed for 1 mark if no other mark scored	3
(d)	any 2 of: speed of car; mass / weight of car; road / weather conditions; road slope / angle; condition / type / age of tyres; condition / age of brakes; wind speed / direction;	ignore references to reaction time, thinking distance, stopping distance etc. road surface, rain, ice, snow etc. ignore fog, mist etc.	2

Total for question 2 = 10 marks