31. Fig. 1.1 shows the speed-time graph for the motion of a car.

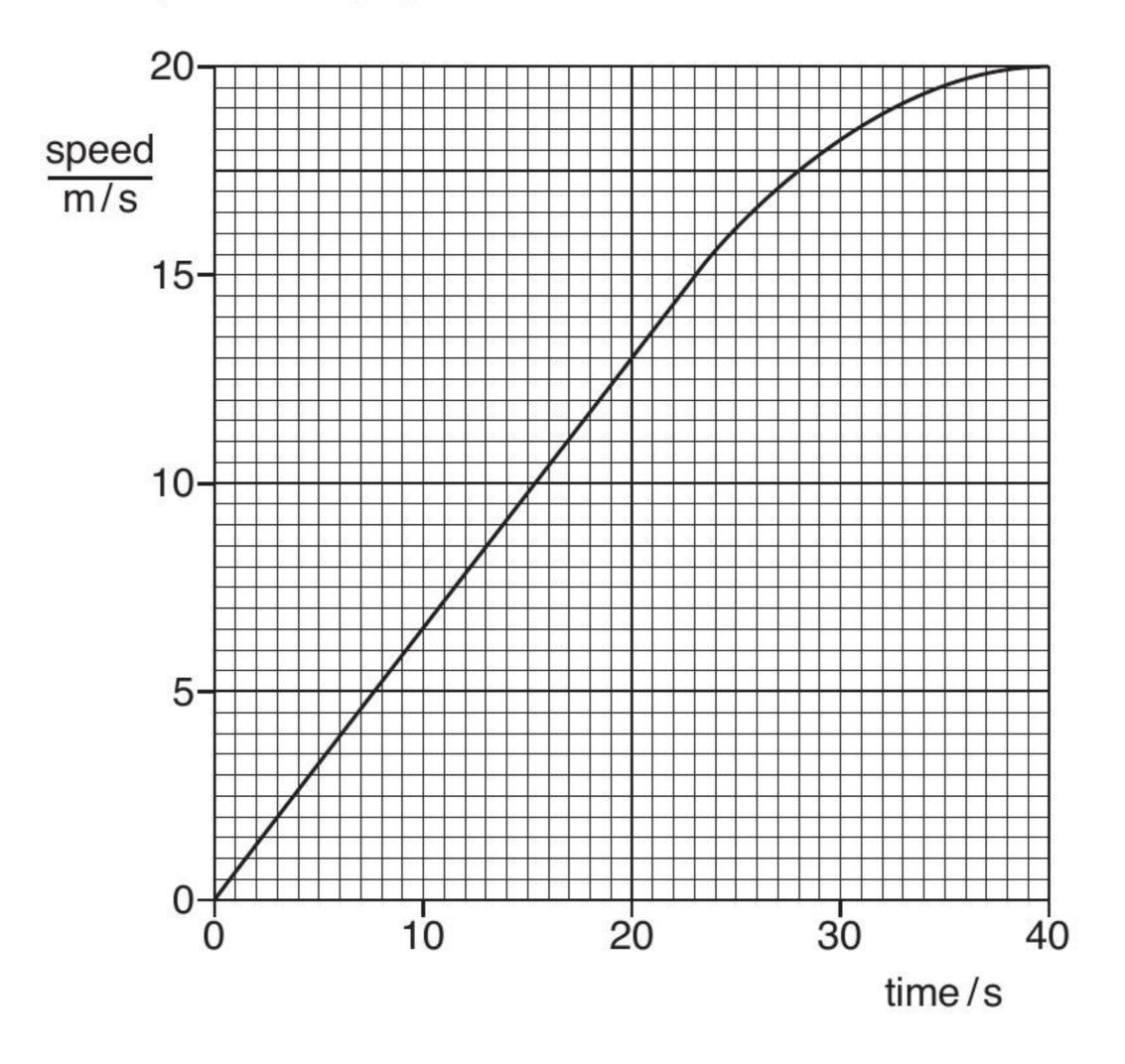


Fig. 1.1

The mass of the car is 1200 kg.

59201 A270	25 <u>4</u> 270	12 00000	52 C	82 10024	0.000
(2)	Calculate.	for the	first 20 s	of the	motion
lai	Calculate.	ioi tile	11151 205	OI IIIE	HIOUIOH.

(i) the distance travelled by the car,

distance =	[2]
------------	-----

(ii) the acceleration of the car,

(iii) the resultant force acting on the car.

(b) Describe the motion of the car in the period of time from 25 s to 40 s.

.....[1]

[Total: 7]

© UCLES 2017 0625/41/O/N/17