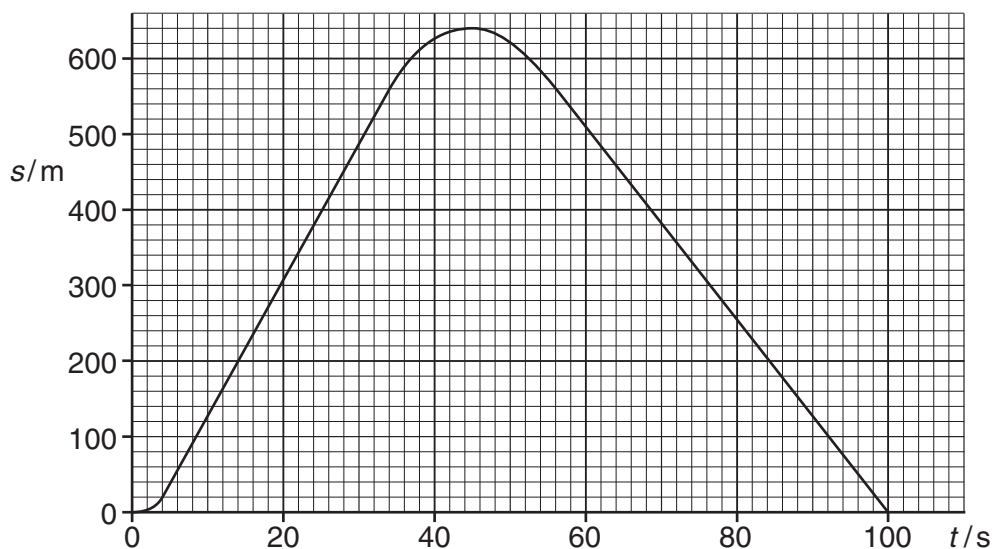Answer **all** the questions in the spaces provided.

1   The variation with time t of the displacement s for a car is shown in Fig. 1.1.

Fig. 1.1

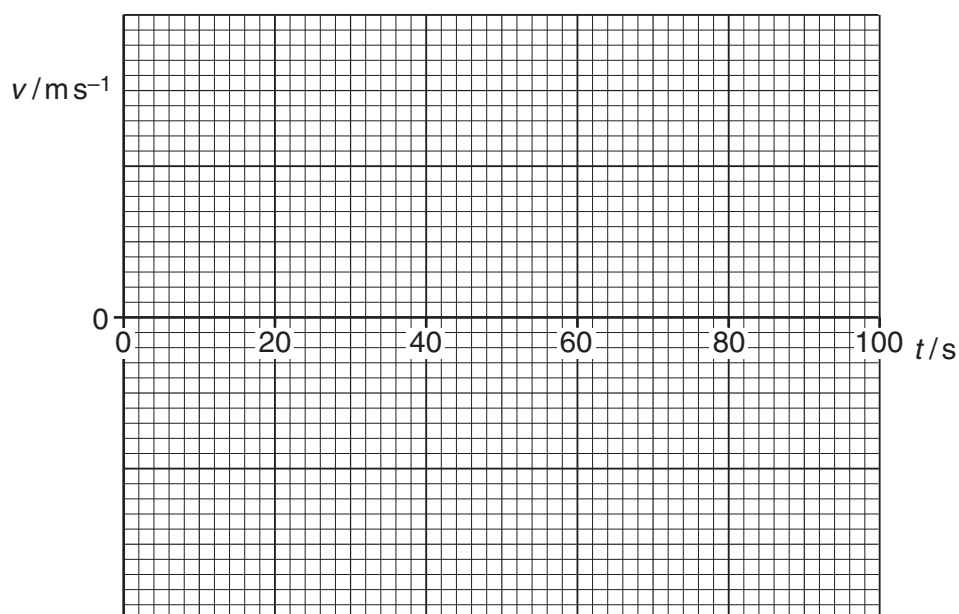(a)   Determine the magnitude of the average velocity between the times 5.0 s and 35.0 s.

average velocity = ... m s^{-1} [2]

(b)   On Fig. 1.2, sketch the variation with time t of the velocity v for the car.

Fig. 1.2

[4]