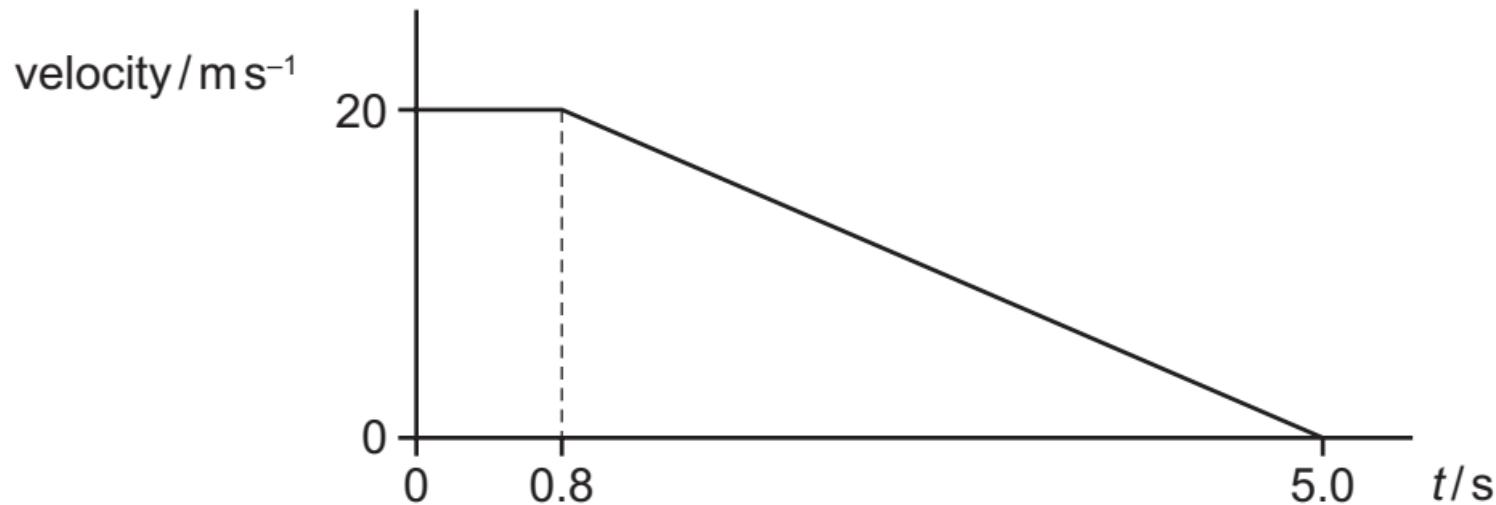


- 8 A car is travelling at constant velocity. At time  $t = 0$ , the driver of the car sees an obstacle in the road and then brakes to a halt. The graph shows the variation with  $t$  of the velocity of the car.



How far does the car travel in the 5.0 s after the driver sees the obstacle?

A  $16\text{ m}$

B  $42\text{ m}$

C  $58\text{ m}$

D  $84\text{ m}$