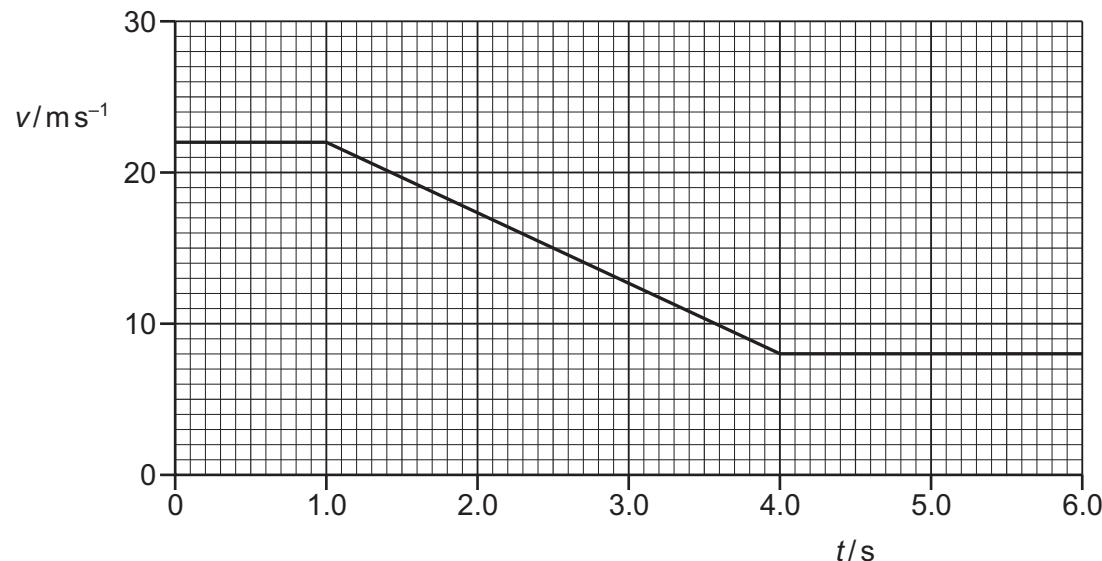


- 6** A car travels along a straight horizontal road. The graph shows the variation of the velocity v of the car with time t for 6.0 s of its journey.



The brakes of the car are applied from $t = 1.0\text{ s}$ to $t = 4.0\text{ s}$.

How far does the car travel while the brakes are applied?

A 21 m

B 45 m

C 67 m

D 83 m