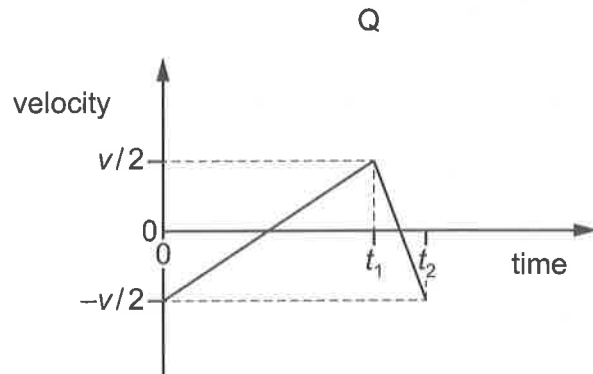
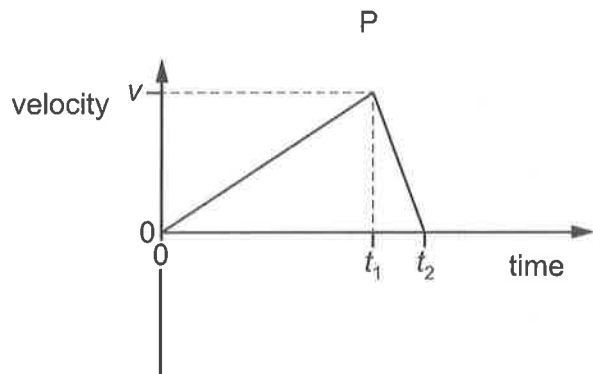


2 The motions of two objects P and Q along a straight line are shown in the following velocity-time graphs.



How do the magnitudes of the displacement and the total distance travelled compare for the two objects from time 0 to time t_2 ?

	displacement	distance
A	different	different
B	different	same
C	same	different
D	same	same

3 A ball of mass 20 g collides with a vertical wall. The ball has a velocity of 23 m s^{-1} in a horizontal