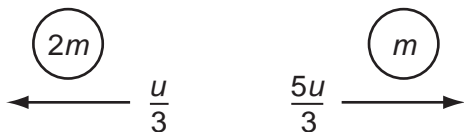


- 9 The diagram shows two spherical masses approaching each other head-on at an equal speed  $u$ . One has mass  $2m$  and the other has mass  $m$ .

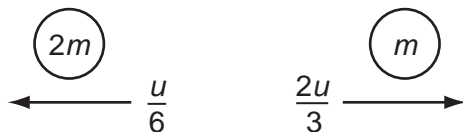


Which diagram, showing the situation after the collision, shows the result of an elastic collision?

**A**



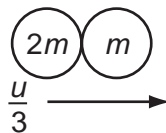
**B**



**C**



**D**



the spheres stick together

- 10 A supermarket trolley, total mass  $20\text{ kg}$ , is moving at  $2.0\text{ m s}^{-1}$ . A retarding force of  $60\text{ N}$  is applied