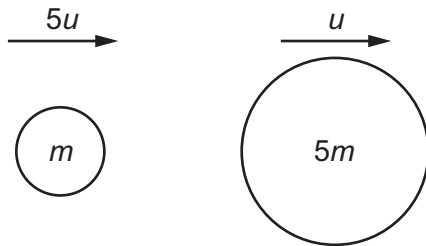


- 10** An object of mass m travelling with speed $5u$ collides with, and sticks to, an object of mass $5m$ travelling in the same direction with speed u .



What is the speed with which the two objects travel together in the original direction?

A $\frac{3}{10}u$

B u

C $\frac{6}{5}u$

D $\frac{10}{6}u$