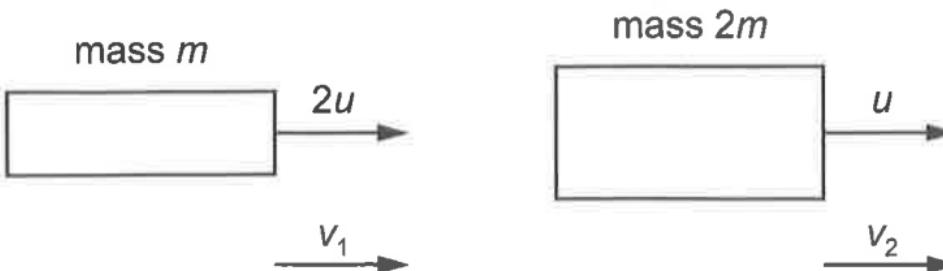


- 8 A mass m travelling at speed $2u$ collides elastically with a mass $2m$ travelling at speed u in the same direction. After collision, the masses travel at speeds v_1 and v_2 respectively.



What are v_1 and v_2 ?

	v_1	v_2
A	$0.67u$	$1.67u$
B	$1.00u$	$2.00u$
C	$1.33u$	$1.33u$
D	$1.50u$	$2.50u$

- 9 A football of mass 0.42 kg is travelling towards a player at 3.0 m s^{-1}