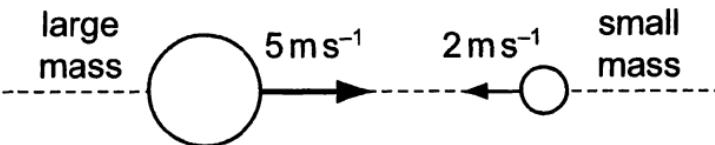


- 8 A large mass moving at a velocity of 5 m s^{-1} collides head-on with a small mass moving at a velocity of 2 m s^{-1} in the opposite direction.



The collision is elastic.

After the collision, both masses move to the right. The large mass has a velocity v_1 and the small mass has a velocity v_2 .

Which pair of values v_1 and v_2 is possible?

	v_1	v_2
A	2 ms^{-1}	5 ms^{-1}
B	3 ms^{-1}	10 ms^{-1}
C	4 ms^{-1}	4 ms^{-1}
D	5 ms^{-1}	12 ms^{-1}