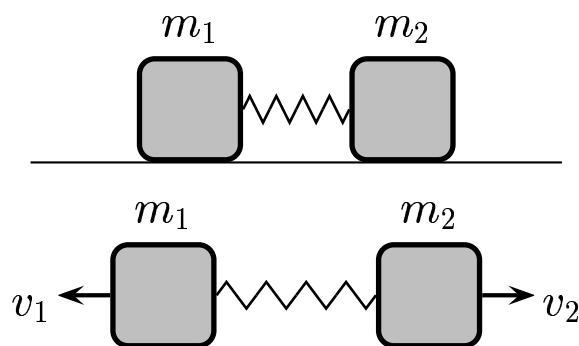


Consider two masses, $m_2 = 2 m_1$. They are pressed together against a spring.



When the two masses are released, find $\frac{v_2}{v_1}$.

- A) $\frac{v_2}{v_1} = \frac{1}{2}$.
- B) $\frac{v_2}{v_1} = 1$.
- C) $\frac{v_2}{v_1} = 2$.
- D) $\frac{v_2}{v_1} = 4$.

From conservation of momentum, we have $p_1 = p_2$ or $m_1 v_1 = m_2 v_2$, therefore, $\frac{v_2}{v_1} = \frac{m_1}{m_2} = \frac{1}{2}$.

Answer **A**.