Consider two masses, \( m_2 = 2m_1 \). 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.

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