

- 3** A mass initially at rest exploded into two pieces of mass m_1 and m_2 which moves apart from each other with speeds v_1 and v_2 respectively.

What is the ratio of $\frac{v_1}{v_2}$?

A $\frac{m_1}{m_2}$

B $\sqrt{\frac{m_1}{m_2}}$

C $\frac{m_2}{m_1}$

D $\sqrt{\frac{m_2}{m_1}}$