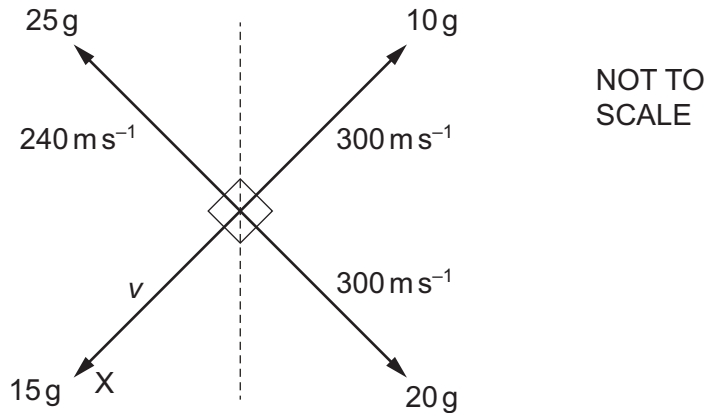


- 10 A stationary firework explodes into four fragments which travel in different directions in a horizontal plane. The diagram shows the velocity and mass of each fragment.



What is the speed  $v$  of fragment X?

- A**  $200 \text{ m s}^{-1}$       **B**  $240 \text{ m s}^{-1}$       **C**  $300 \text{ m s}^{-1}$       **D**  $360 \text{ m s}^{-1}$