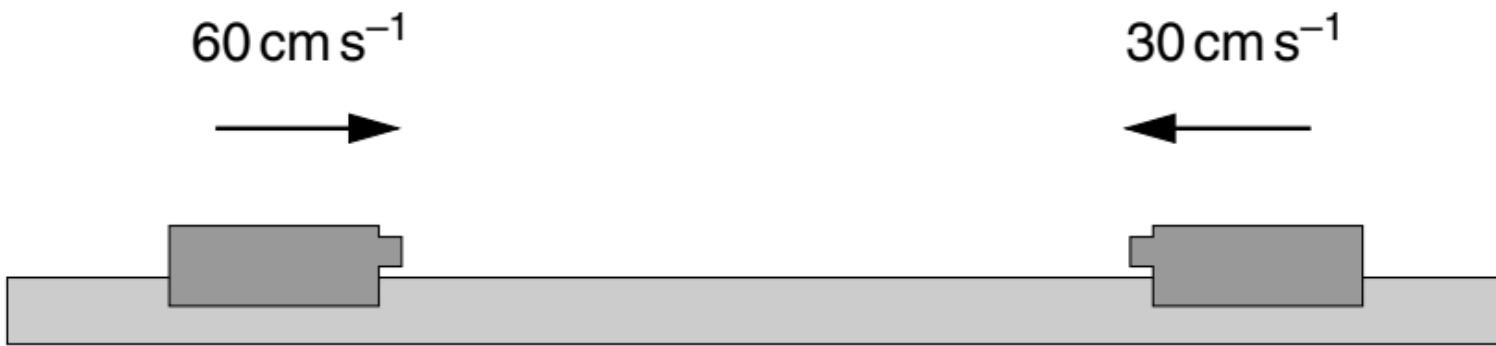


- 12 Two equal masses travel towards each other on a frictionless air track at speeds of  $60 \text{ cm s}^{-1}$  and  $30 \text{ cm s}^{-1}$ . They stick together on impact.



What is the speed of the masses after impact?

- A  $15 \text{ cm s}^{-1}$     B  $20 \text{ cm s}^{-1}$     C  $30 \text{ cm s}^{-1}$     D  $45 \text{ cm s}^{-1}$

- 12 Which of the following pairs of forces, acting on a circular object, constitutes a couple?