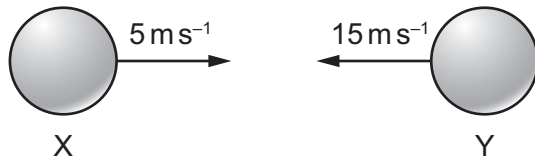


- 8 Two balls X and Y are moving towards each other with speeds of 5 ms^{-1} and 15 ms^{-1} respectively.



They make a perfectly elastic head-on collision and ball Y moves to the right with a speed of 7 ms^{-1} .

What is the speed and direction of ball X after the collision?

- A 3 ms^{-1} to the left
- B 13 ms^{-1} to the left
- C 3 ms^{-1} to the right
- D 13 ms^{-1} to the right