7 Trolleys X and Y of masses m and 3m respectively are travelling at the same speed towards each other. The trolleys collide and move off together.



Which of the following statements is correct?

- A The force of X on Y during the collision is greater than the force of Y on X.
- B The force of X on Y during the collision is less than the force of Y on X.
- \square C The speed of X after the collision is greater than ν .
- \square **D** The speed of X after the collision is less than ν .