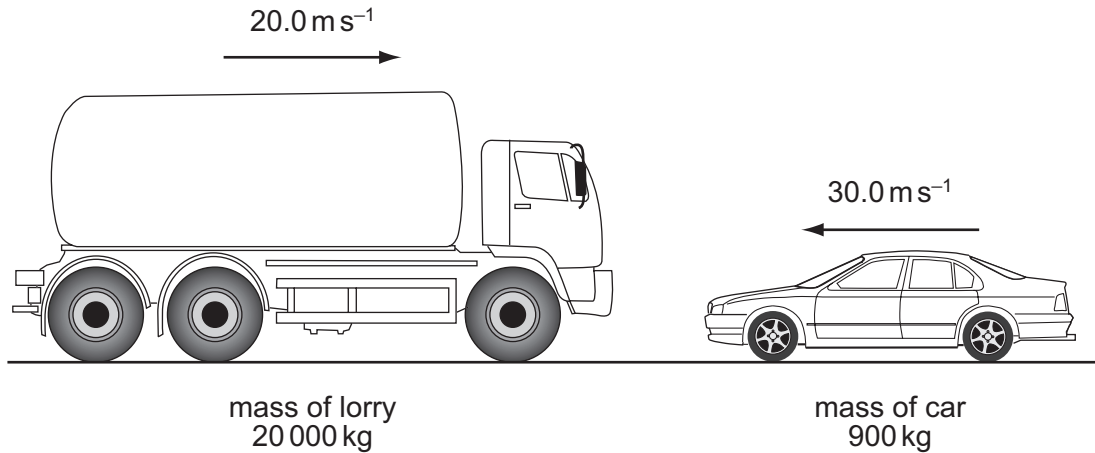


- 11 A lorry of mass  $20\,000\text{ kg}$  is travelling at  $20.0\text{ m s}^{-1}$ . A car of mass  $900\text{ kg}$  is travelling at  $30.0\text{ m s}^{-1}$  towards the lorry.



What is the magnitude of the total momentum?

- A**  $209\text{ kN s}$       **B**  $373\text{ kN s}$       **C**  $427\text{ kN s}$       **D**  $1045\text{ kN s}$