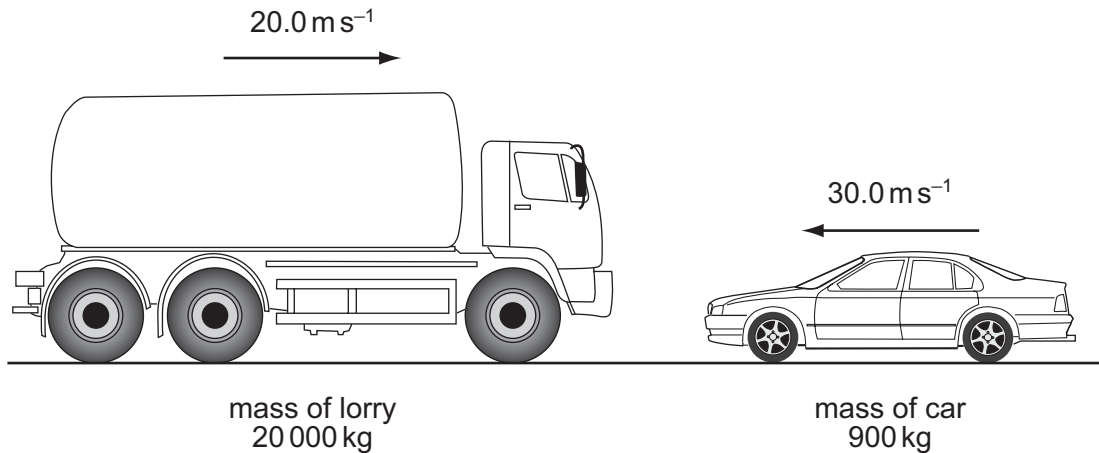


- 11 The diagram shows a situation just before a head-on collision. A lorry of mass $20\,000\text{ kg}$ is travelling at 20.0 m s^{-1} towards a car of mass 900 kg travelling at 30.0 m s^{-1} towards the lorry.



What is the magnitude of the total momentum?

- A** 373 kN s **B** 427 kN s **C** 3600 kN s **D** 4410 kN s