

- 4** A tractor of mass 1000 kg pulls a trailer of mass 1000 kg via a tow-bar. The total resistance to motion has a constant value of 4000 N. One fifth of this resistance acts on the trailer. If the maximum breaking force of the tow-bar is 3000N, what is maximum acceleration of the tractor and trailer?

A 2.2 m s^{-2} **B** 3.0 m s^{-2} **C** 3.8 m s^{-2} **D** 7.0 m s^{-2}