

- 6** A train consisting of six wagons each of mass $6.0 \times 10^4 \text{ kg}$ is pulled at a constant speed by a locomotive along a straight horizontal track. The horizontal force resisting the motion of each wagon is 4000 N.



The train now accelerates at 0.15 m s^{-2} .

What is the tension in the coupling between wagons 2 and 3?

- A** 26 kN **B** 40 kN **C** 52 kN **D** 78 kN

