

- 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

