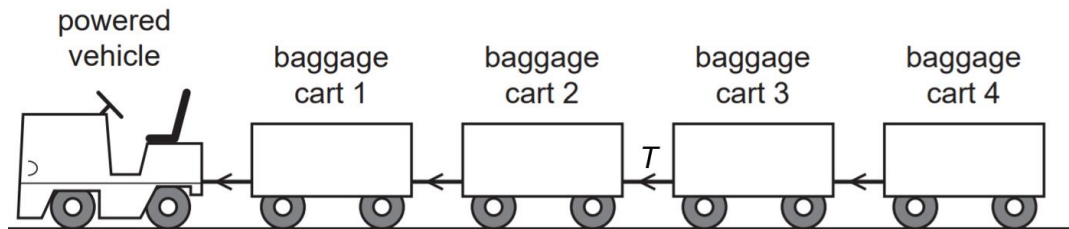


- 4 A transport system used to move luggages from the airport terminal to the aircraft consists of a powered vehicle connected to four baggage carts by a series of connecting bars.



The mass of the powered vehicle is 200 kg and each of the baggage carts has a mass of 400 kg. The system starts with an acceleration of 2.0 m s^{-2} .

What is the tension T in the connecting bar between baggage carts 2 and 3? (Ignore any friction forces on the carts.)

- A** 400N **B** 800N **C** 1200N **D** 1600N