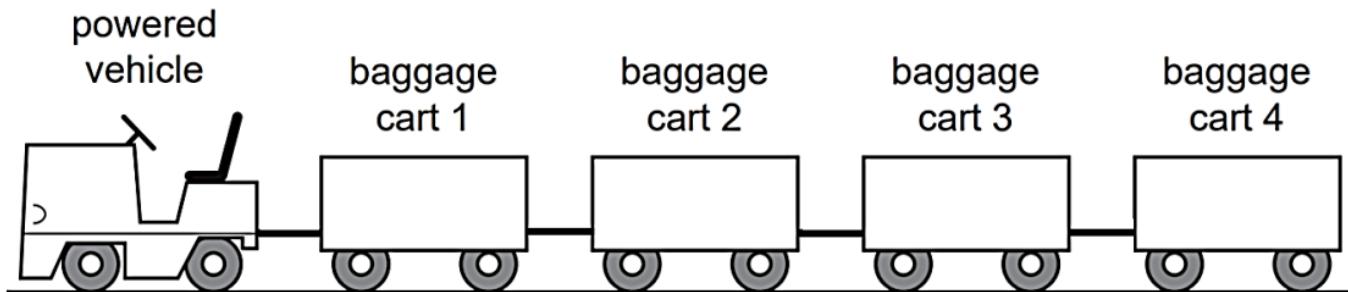


- 3 A transport system used to move luggage from the airport terminal to the aircraft consists of a powered vehicle connected to four baggage carts by a series of connecting bars.



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

Ignore any frictional forces on the carts.

What is the tension in the connecting bar between baggage carts 2 and 3?

A 400 N

B 800 N

C 1200 N

D 1600 N

- 4 A small ball P moves with speed v towards another identical ball Q along a line joining