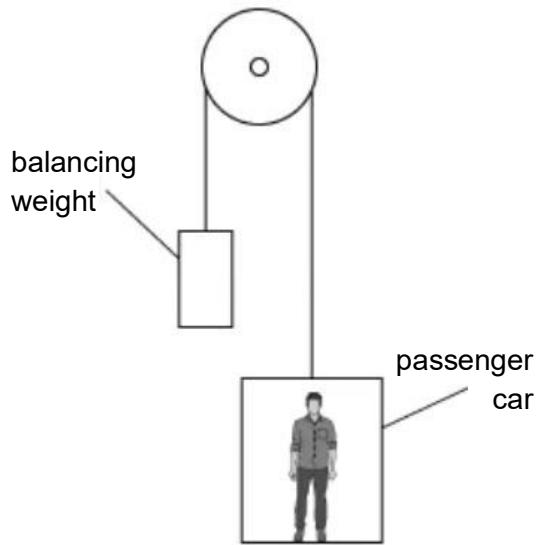


- 4** A lift consists of a passenger car supported by a cable which runs over a light, frictionless pulley to a balancing weight. The balancing weight falls as the passenger car rises.



(not drawn to scale)

The masses are shown in the table.

	mass / kg
passenger car	1200
balancing weight	1320
passenger	80

What is the magnitude of the force between the passenger and the passenger car when carrying just one passenger and when the pulley is free to rotate?

A 12 N

B 773 N

C 785 N

D 797 N