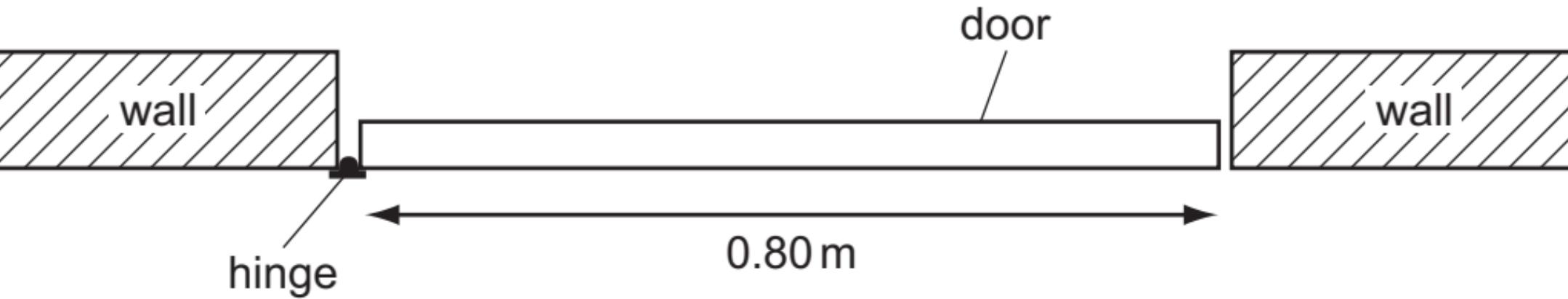


14 The diagram shows a plan view of a door which requires a moment of 12 Nm to open it.



What is the minimum force that must be applied at the door's midpoint to ensure it opens?

A 4.8 N

B 9.6 N

C 15 N

D 30 N

15 A car of mass 1000 kg first travels forwards at 25 m s^{-1} and then backwards at 5 m s^{-1}