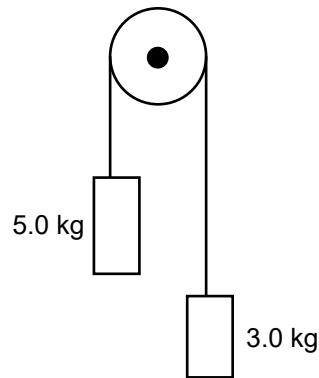


- 5** The pulley in the diagram below is frictionless.



What is the magnitude of the acceleration of the system, assuming that air resistance is negligible?

A 2.5 m s^{-2}

D 9.8 m s^{-2}

B 3.7 m s^{-2}

C 6.3 m s^{-2}