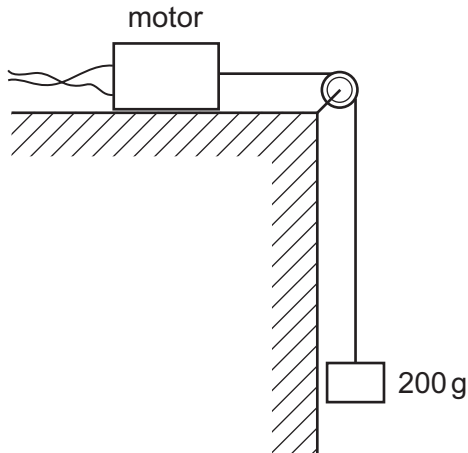


- 15** A small electric motor is mounted on a bench, as shown. The motor is connected to a 6.0 V supply and the current in the motor is 0.50 A. The motor is 50% efficient.



What is the time taken to lift a mass of 200 g up through a height of 90 cm?

- A** 0.59 s **B** 0.85 s **C** 1.2 s **D** 2.7 s

- 16** A projectile is launched at 45° to the horizontal with initial kinetic energy E