

- 16** An electric motor is required to haul a cage of mass 400 kg up a mine shaft through a vertical height of 1200 m in 2.0 minutes. 20 % of the total power output of the motor is used in overcoming friction, and 80 % is used in raising the cage.

What is the total power output of the motor?

- A** 4.0 kW                      **B** 5.0 kW                      **C** 39 kW                      **D** 49 kW