

- 7 A motor is used to lift a load of mass 0.80 kg vertically upward at an acceleration of 1.0 m s^{-2} for a distance of 2.0 m. The efficiency of the motor is 60%.

What is the electrical energy supplied to the motor in performing this task?

A 2.7 J

B 17 J

C 26 J

D 29 J