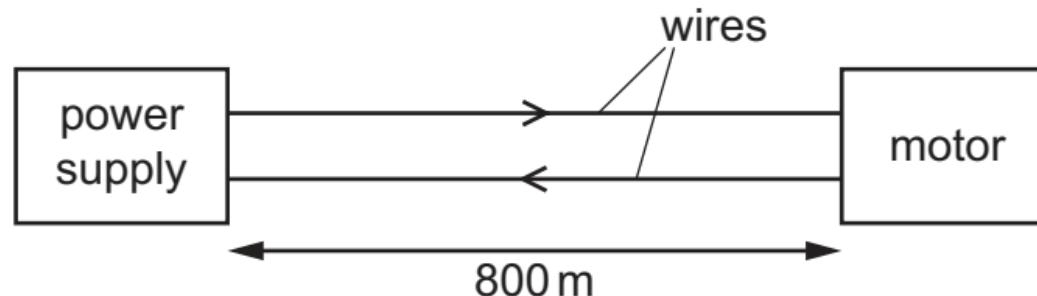


- 37** A motor is required to operate at a distance of 800 m from its power supply. The motor requires a potential difference (p.d.) of 16.0 V and a current of 0.60 A to operate.

Two wires are used to supply power to the motor as shown.



The resistance of each of these wires is 0.0050Ω per metre.

What is the minimum output p.d. of the power supply?

- A** 11.2 V
- B** 16.0 V
- C** 18.4 V
- D** 20.8 V

- 38** Which elementary particle is a lepton?