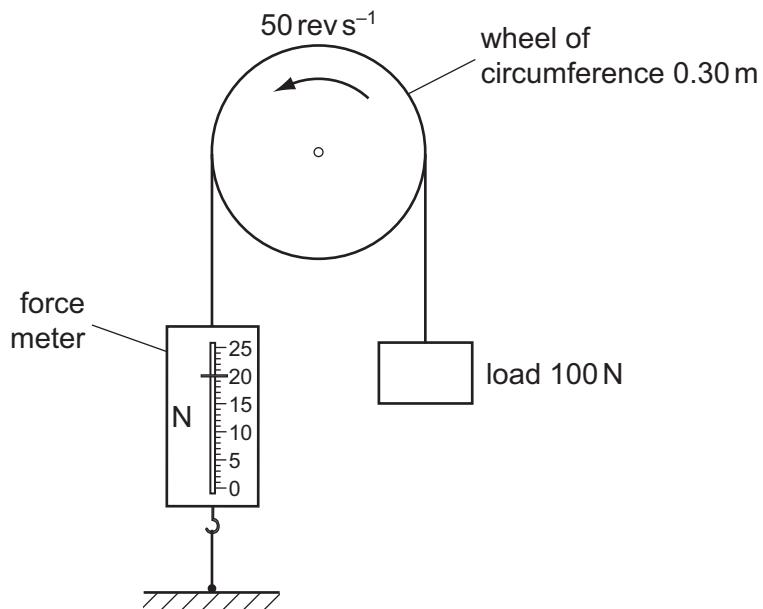


- 19** The diagram shows a wheel of circumference 0.30 m. A rope is fastened at one end to a force meter. The rope passes over the wheel and supports a freely hanging load of 100 N. The wheel is driven by an electric motor at a constant rate of 50 revolutions per second.

When the wheel is turning at this rate, the force meter reads 20 N.



What is the output power of the motor?

- A** 0.3 kW      **B** 1.2 kW      **C** 1.8 kW      **D** 3.8 kW

**Space for working**