

8 A motor lifts a mass of 50 000 kg through a vertical height of 25 m.

The motor has an output power of 700 kW.

Which of the following gives the time in seconds taken to lift the mass?

☐ A  $\frac{50\,000 \times 25}{700\,000}$

☐ B  $\frac{50\,000 \times 9.81 \times 25}{700\,000}$

☐ C  $\frac{50\,000 \times 25}{700}$

☐ D  $\frac{50\,000 \times 9.81 \times 25}{700}$

(Total for Question 8 = 1 mark)