

- 10** A locomotive pulls a train at constant speed against a force of 8 400 kN. The output power of the locomotive is 70 MW.

Which of the following gives the time in seconds for the locomotive to pull the train a distance of 1 km?

☐ **A** $\frac{70 \times 10^6}{8400 \times 10^3}$

☐ **B** $\frac{70}{8400 \times 10^3}$

☐ **C** $\frac{8.4 \times 10^6 \times 10^3}{7 \times 10^7}$

☐ **D** $\frac{8400}{70 \times 1000}$

(Total for Question 10 = 1 mark)