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** $\dfrac{70 \times 10^6}{8\,400 \times 10^3}$

☒ **B** $\dfrac{70}{8\,400 \times 10^3}$

☒ **C** $\dfrac{8.4 \times 10^6 \times 10^3}{7 \times 10^7}$

☒ **D** $\dfrac{8\,400}{70 \times 1000}$

(Total for Question 10 = 1 mark)