

- 4 A hydroelectric power station has an efficiency of 32%. In one hour the useful energy output of the power station is  $1.2 \times 10^{13}$  J.

Which of the following expressions gives the total power input to the power station in watts?

☐ A  $1.2 \times 10^{13} \times 0.32$

☐ B  $\frac{1.2 \times 10^{13}}{0.32 \times 3600}$

☐ C  $\frac{1.2 \times 10^{13} \times 0.32}{3600}$

☐ D  $\frac{1.2 \times 10^{13}}{0.32}$

(Total for Question 4 = 1 mark)