

- 4 A hydroelectric power station has an efficiency of 32%. In one hour the useful energy output of the power station is 1.2×10^{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)