30 Consider the following nuclear reaction:

$$^{7}_{3}\text{Li} + {}^{1}_{1}\text{H} \rightarrow 2\,{}^{4}_{2}\text{He}$$

The masses of the nuclei are as follow: $^{7}_{3}\text{Li}$: 7.018*u*, $^{1}_{1}\text{H}$: 1.008*u*, $^{4}_{2}\text{He}$: 4.004*u*.

How much energy is released when 1.0 g of $^{1}_{1}\text{H}$ is fused with a sufficient amount of $^{7}_{3}\text{Li}$?

A 2.7×10^{-12} J **B** 6.1×10^{-10} J **C** 1.6×10^{12} J **D** 3.6×10^{14} J