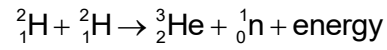


- 30** Two deuterium nuclei fuse together to form a Helium-3 nucleus, with the release of a neutron. The reaction is represented by



The binding energies per nucleon are:

for ${}^2_1\text{H}$ 1.09 MeV,
for ${}^3_2\text{He}$ 2.54 MeV.

How much energy is released in this reaction?

- A** 0.36 MeV **B** 1.45 MeV **C** 3.26 MeV **D** 5.44 MeV

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