

- 29** A uranium-235 nucleus ($^{235}_{92}\text{U}$) undergoes fission, producing nuclei of lanthanum-146 ($^{146}_{57}\text{La}$) and bromine-87 ($^{87}_{35}\text{Br}$). The binding energies per nucleon of these nuclides are shown below.

nuclide	binding energy per nucleon / MeV
$^{235}_{92}\text{U}$	7.6
$^{146}_{57}\text{La}$	8.2
$^{87}_{35}\text{Br}$	8.6

What is the energy released from this reaction?

- A** 9.2 MeV **B** 69.2 MeV **C** 90.2 MeV **D** 159 MeV