Name:

The boron-10 isotope has a mass of 10.0129 amu and boron-11 has a mass of 11.00931 amu. The atomic mass of a sample of boron is 10.811 amu.

<u>Without using a calculator</u>, circle the best estimate among the following for the percentage abundance of the two isotopes of boron in the natural sample:

- a) 40% 10 B and 60% 11 B
- b) 80% 10 B and 20% 11 B
- c) 20% ¹⁰B and 80% ¹¹B
- d) 60% 10 B and 40% 11 B

Explain why you chose your answer in 1-2 sentences.