

Homework 2
CHEM1002
2008

Due October 16

A building in Newport, Rhode Island was supposed to have been built by the Vikings in 1000 CE (Common Era, i.e, A.D.). The carbon from the CaCO_3 in the mortar was sampled and the actual construction date was 1680. Calculate the fraction of ^{14}C compared to current levels, in the mortar. How much more ^{14}C was present than would have been if there mortar actually was prepared in 1000 CE?

46, 48, 52, 54,58, 60, 68,70, 74, 76,98