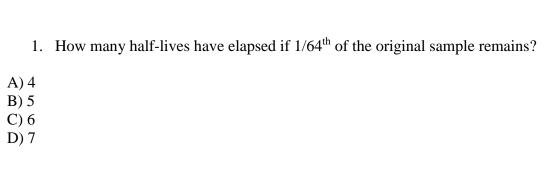
## Earth Systems 3209 Assignment Radiometric Dating

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**2.** A fossilized bone has been found that contains 4 grams of Carbon-14 isotopes. Given that its original mass was 256 grams and the half-life of Carbon-14 is 5, 730 years, determine its age. Be sure to show all your workings.

3. You have 1/64<sup>th</sup> of the original parent isotope left. Given that the half life of the parent isotope is 0.4 billion years, determine the age of the sample. Be sure to show all workings.

