**Determining Absolute Age Homework:**

***Pg. 191***

**Name: Date; Period:**

**Define the following:**

Absolute Age –

|  |
| --- |
|  |
|  |
|  |

Radiometric Dating –

|  |
| --- |
|  |
|  |
|  |

Half-life -

|  |
| --- |
|  |
|  |
|  |

**Review:**

How does the half-life of an isotope affect the accuracy of the radiometric dating method? (pg. 195):

|  |
| --- |
|  |
|  |
|  |
|  |

What is Carbon-14 and what do we use it for?:

|  |
| --- |
|  |
|  |
|  |
|  |

**Differentiate:**

What is the difference between relative and absolute dating?

|  |
| --- |
|  |
|  |
|  |

Suppose you have a shark’s tooth that you suspect is about 15,000 years old. Would you use 238U or 14C to date the tooth. Explain your answer:

|  |
| --- |
|  |
|  |
|  |
|  |
|  |

**Explain:**

Summarize the limitations of using the rates of erosion and deposition to determine the absolute age of rock formations?

|  |
| --- |
|  |
|  |
|  |
|  |
|  |

Describe the formation of varves?

|  |
| --- |
|  |
|  |
|  |
|  |

If a rock has a higher percentage of daughter isotopes to parent isotopes, would you consider it to be an older or younger sample/rock? Explain your answer.

|  |
| --- |
|  |
|  |
|  |
|  |
|  |
|  |