Homework 8

Time

The era of dinosaurs is subdivided into Triassic, Jurassic, and Cretaceous. Together these are known as the:

- A. Archean
- B. Proterozoic
- C. Paleozoic
- D. Mesozoic
- E. Cenozoic

Why can’t $^{14}$C be used to date limestones?

- A. No carbon in limestone
- B. No $^{14}$C in limestone, $^{14}$C half-life too short
- C. $^{14}$C half-life too long
- D. Daughter $^{14}$N not retained by limestone

Half-lives: If the amount of radioactive isotope is $\frac{1}{4}$ the amount originally present, how many half-lives have gone by?

- A. 1
- B. 2
- C. 3
- D. 4

1. The basaltic dike is older than the granite
   A. True
   B. False

2. The basaltic sill is older than the granite.
   A. True
   B. False
3. Sediment layer ‘a’ is older than the granite
   A. True
   B. False

4. Sediment layer ‘q’ is older than the granite
   A. True
   B. False

Conglomerate contains cobbles of granite. K-Ar date on granite gives 200 million years. Conglomerate is therefore younger than 200 MY
   A. True
   B. False