

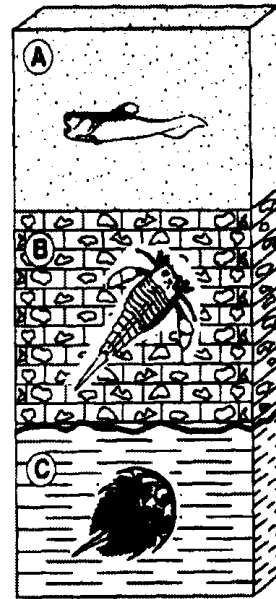
Fossils Worksheet – Earth Science

Name: _____

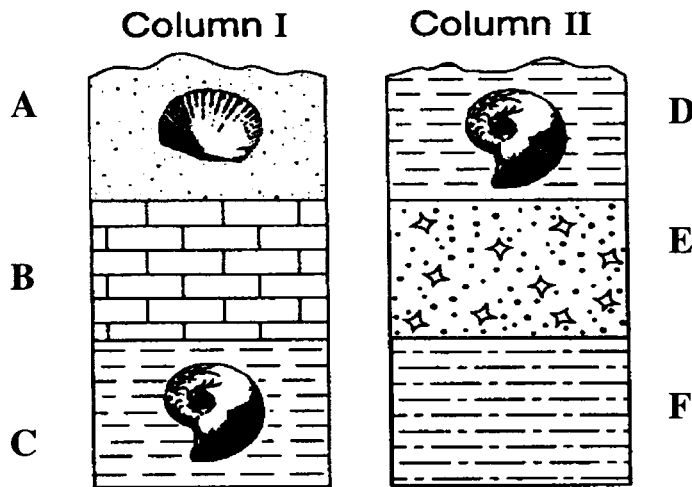
 C 1. Using the diagram below, which of the following fossils (A, B or C) is the oldest?

_____ 2. What is the order of the layers? Which relative dating technique(s) did you use to figure out the order of the layers?

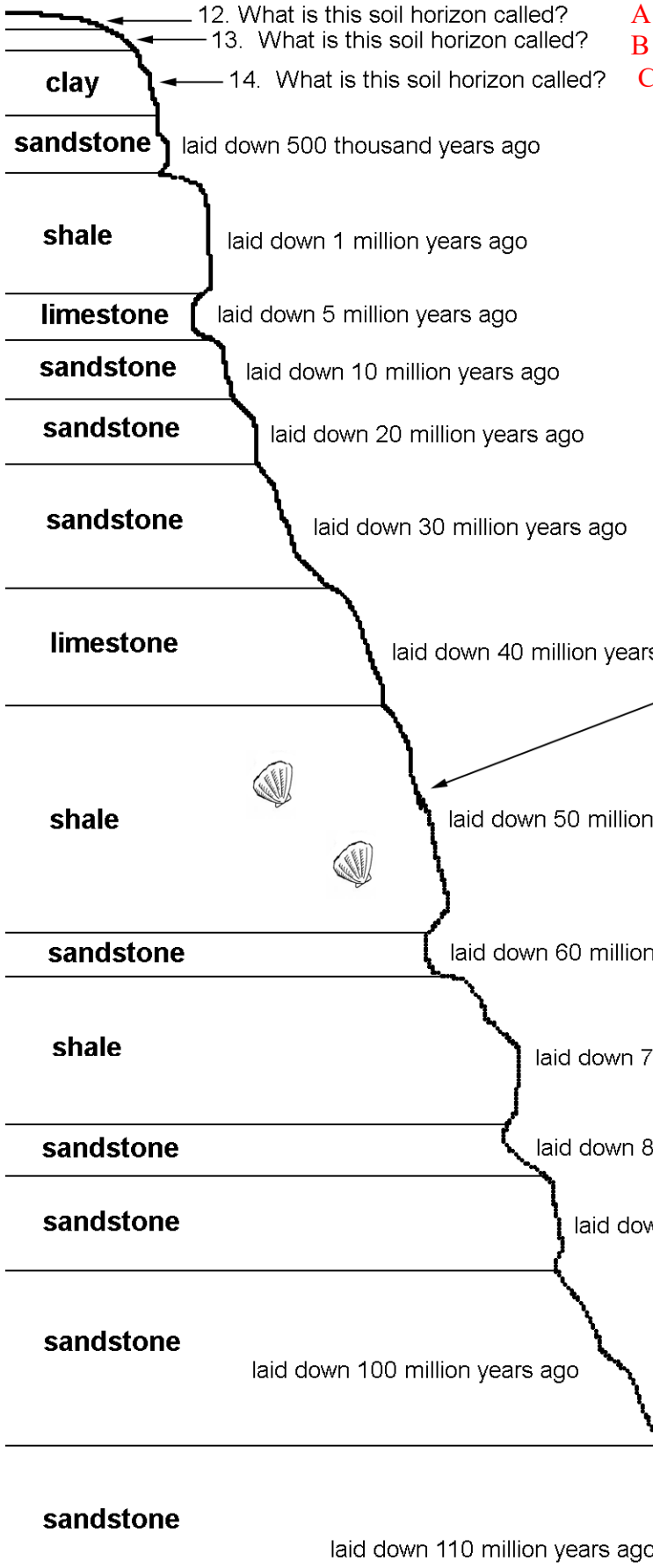
A,B,C → Principle of original horizontality
 → Principle of superposition



Examine the following diagrams. Columns I and II contain rock layers A, B, C and D, E, F. Both columns were taken from the same dig site.



3. Which two layers are of approximately the same age? **C & D** same index fossil
4. Which layer is the oldest? **F**
5. Which layer is the youngest? **A**
6. Have any of the rock layers undergone metamorphism? **Yes, layer E. We know this as the grain structure has been compressed from horizontal layers into larger grains.**



15. What major erosional force caused this canyon to be formed? (Hint: it's the same force that created the Grand Canyon)

water

16. If Uranium-236 has a half life of 25 million years, what percentage of the original Uranium-236 would be left in this layer and what percentage would have turned into lead?

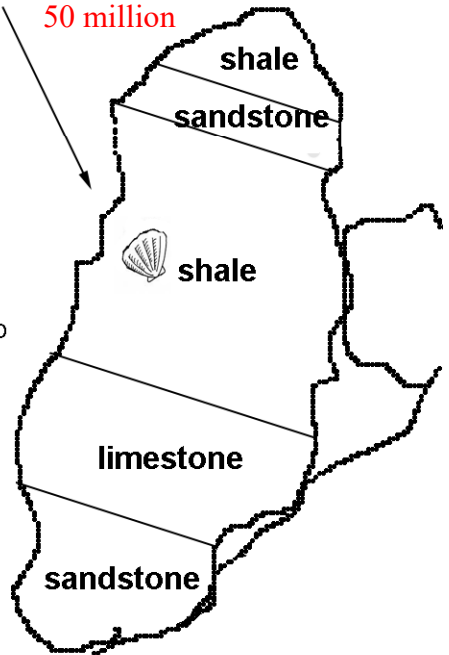
25% U 75% Pb

17. What is the age of this shale?

75 million

18. How old would the fossil clam be in this layer?

50 million



The Oukaluokalou River
(old Indian name meaning stinky brown water that smells like bison poop)