

SEAFLOOR AGES

Part 1: Divergent Boundary

The diagram is of a divergent boundary with arrows showing the direction in which the plates are moving.



- What is the age of the rocks at Location B?
 - 0 years old
 - 1 million years old
 - 2 million years old
 - 4 million years old
- If each plate is moving at a rate of 10 km per 1 million years, roughly how long did it take for Rock A to reach its current location?
 - 0 years
 - 1 million years
 - 2 million years
 - 4 million years
- What is the age of the rock at Location C?
 - 0 years old
 - 1 million years old
 - 2 million years old
 - 4 million years old
- Why should your answer to Question 3 be twice your answer to Question 2? Revise your answers if necessary.
- Where is the oldest ocean crust found? A B C
- A map of the Atlantic Ocean is shown to the right. There is a divergent plate boundary running north-south in the middle of the ocean. Make a prediction: where are the oldest rocks in the Atlantic Ocean found?
 - D E
- Two students are debating about the relative ages of the rocks that make up the crust in the Atlantic Ocean.



Student 1: The oldest rocks are located at E because it is the farthest from a continent. The rocks would take a really long time to get to the middle of the ocean.

Student 2: But this ocean has a divergent boundary in the center. This means that rocks at E are really young. D is farthest from the divergent boundary, so that's where the oldest rocks are.

With which student do you agree? Why?

Lecture Tutorials For Introductory Geoscience Answer Key

Ensheng Dong



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