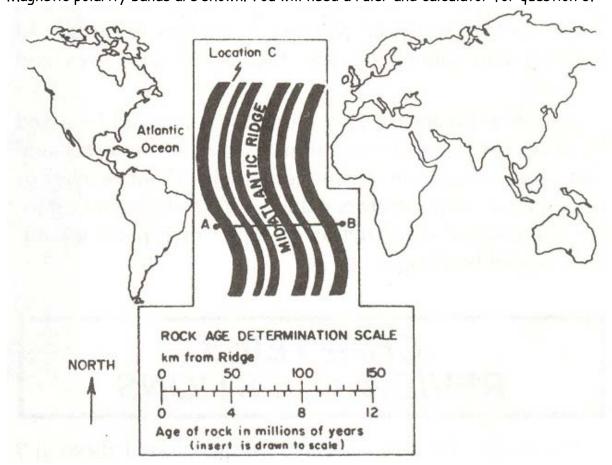
MiSP Plate Tectonics Worksheet #3 - Assessment L1

Name	Date
L1-3	

Base your answers to questions 1 - 3 on the diagram below which shows an enlargement of the mid-Atlantic ridge and surrounding area in its position between the continents.

Magnetic polarity bands are shown. You will need a ruler and calculator for question 3.



1. What would be the age in millions of years of an ocean floor rock found 20 kilometers west of the ocean ridge?

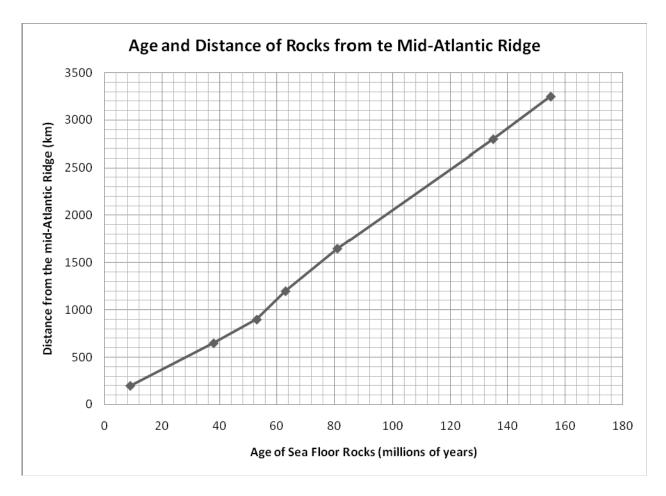
- 2. _____ Multiple choice From point A to point B, what happens to the relative age of the rocks?
 - A. continuously decrease from A to B
 - B. continuously increase from A to B
 - C. decreases from A to the mid-Atlantic ridge and then increases to B
 - D. increases from A to the mid-Atlantic ridge and then decreases to B

3. What is the average rate of sea floor movement (centimeters per year or cm/year)
from the mid-Atlantic ridge to point B. Remember that there are 100,000 cm in a km and
to find the rate per year, you will have to multiply the millions of years by 1,000,000. Show
all work.

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5 (L1) 5-6 (L2) 5-8 (L3) This chart is data from the Plate Tectonics unit's Worksheet #1-SEA FLOOR SPREADING. It lists the age and distance of rocks from the mid-Atlantic ridge. The data is graphed on the next page.

Age of sea-floor (millions of	Actual Distance (km)
*	
years)	
9	200
38	650
53	900
63	1,200
81	1,650
135	2,800
155	3,250



5. Using the graph, at what distance from the mid-Atlantic Ridge would rocks be found that are -

120 million years old?

160 million years old? _____