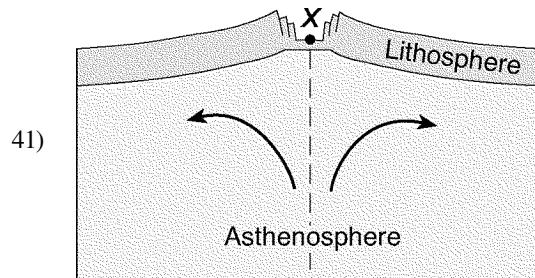
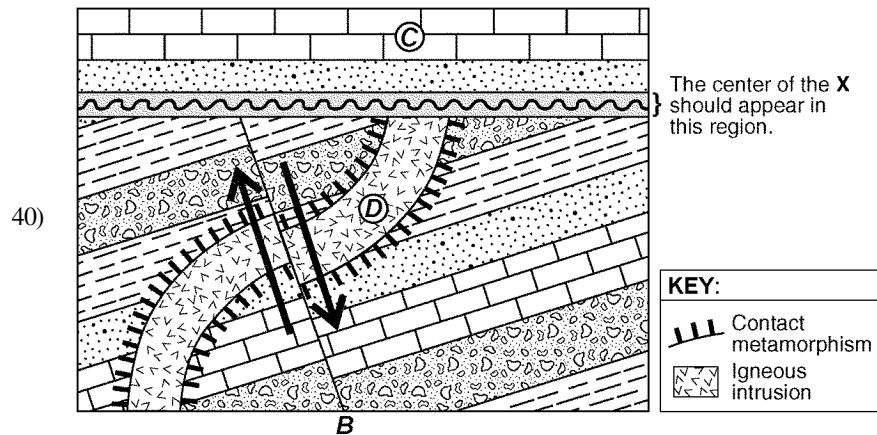
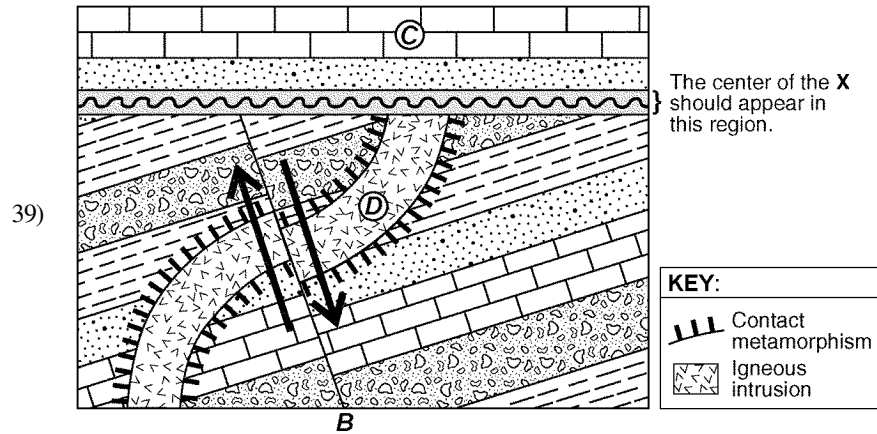
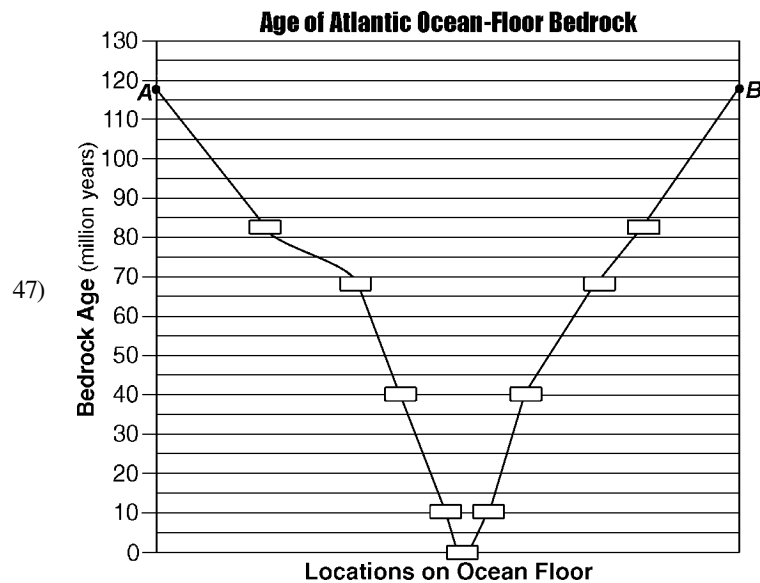


- 1) C 2) B 3) C 4) A 5) B
 6) B 7) C 8) B 9) C 10) A
 11) A 12) D 13) C 14) A 15) B
 16) D 17) A 18) B 19) C 20) D
 21) D 22) C 23) D 24) A 25) D
 26) A 27) C 28) B 29) D 30) C
 31) A 32) B 33) D 34) A 35) B
 36) D 37) C 38) C

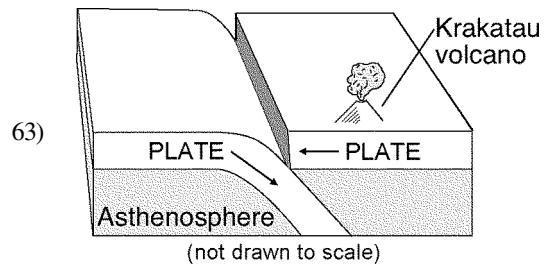
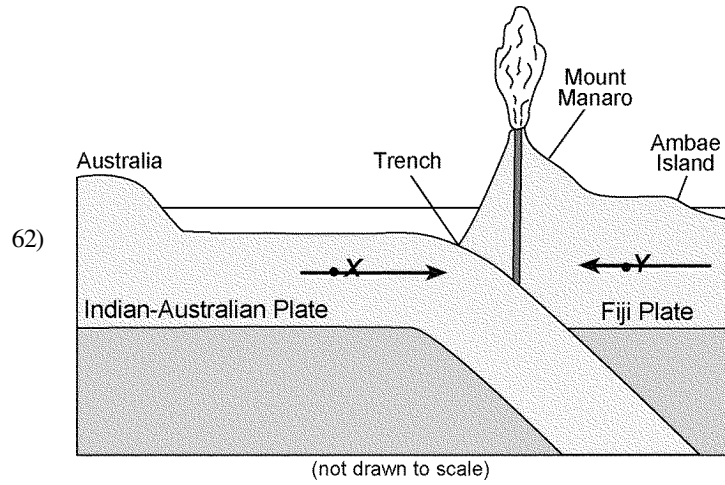


- 42) 23 million years ago to 1.8 million years ago
 43) Arabian Plate and African Plate
 44) SAMPLE ANSWERS: Scoria: noncrystalline OR glassy OR vesicular; Basalt: fine OR nonvesicular

- 45) SAMPLE ANSWERS: an uncertain or complex plate boundary OR a divergent plate boundary OR rift valley/East African Rift
- 46) SAMPLE ANSWERS: Hawaii OR Yellowstone OR Canary Islands OR Tasman Hot Spot OR St. Helena Hot Spot OR Galapagos Hot Spot



- 47) 47)
- 48) Any value greater than 68 million years and less than 83 million years.
- 49) SAMPLE ANSWERS: Plates are diverging at the Mid-Atlantic Ridge where new seafloor is forming. OR The boundary between the South American Plate and the African Plate is a spreading center. OR New oceanic crust is formed at mid-ocean ridges. OR The seafloor is spreading.
- 50) SAMPLE ANSWERS: North American Plate and Eurasian Plate OR N. American Plate and African Plate
- 51) North American Plate and Eurasian Plate
- 52) SAMPLE ANSWERS: hot spot OR rising convection currents OR magma chamber OR rising magma
- 53) Pliocene Epoch
- 54) SAMPLE ANSWERS: southeastward OR south OR ESE OR east OR SSE OR to the right
- 55) SAMPLE ANSWERS: divergent OR transform OR mid-ocean ridge
- 56) SAMPLE ANSWERS: Dissolved gases are released from lava as a result of a decrease in pressure. OR gas/air bubbles trapped in rapidly cooling lava OR There was an explosive eruption of a volcano.
- 57) 3100°C to 3300°C
- 58) C and E
- 59) SAMPLE ANSWERS: Hawaii Hot Spot OR mantle hot spot OR volcano OR a rising magma plume
- 60) troposphere
- 61) SAMPLE ANSWERS: East Australia Current OR South Equatorial Current OR E. Australia C.



64) 530 kilometers/hour

65) stratosphere

66) SAMPLE ANSWERS: The ash particles blocked out the Sun's rays. OR Dust particles reflect the Sun's rays. OR Less insolation reached Earth's surface.

67) SAMPLE ANSWERS: Texture: vesicular OR filled with gas pockets; Density: low density OR density less than 1 g/cm^3 OR less dense than water

