

earths-layers

Name: _____

Date: _____

1. In which area of Earth's interior is the pressure most likely to be 2.5 million atmospheres?

- A. asthenosphere
- B. stiffer mantle
- C. inner core
- D. outer core

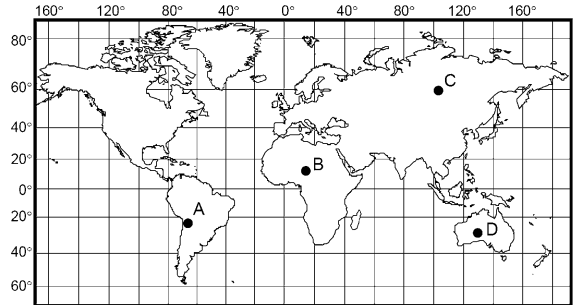
2. Which statement best describes Earth's crust and mantle?

- A. The crust is thicker and less dense than the mantle
- B. The crust is thicker and more dense than the mantle
- C. The crust is thinner and less dense than the mantle
- D. The crust is thinner and more dense than the mantle

3. What is the direct cause of most earthquakes?

- A. gravitational pull on bedrock by the Moon
- B. deposition of sediment in lakes and oceans
- C. movement of bedrock along a fault line
- D. heat exchange between the crust and the atmosphere

4. Letters *A* through *D* shown on the accompanying map are locations on Earth's surface.



Which location is closest to a major zone of frequent earthquakes and volcanic activities?

- A. *A*
- B. *B*
- C. *C*
- D. *D*

5. Seafloor spreading is occurring at the boundary between the

- A. African plate and Antarctic plate
- B. Nazca plate and South American plate
- C. China plate and Philippine plate
- D. Australian plate and Eurasian plate

6. Which features are commonly formed at the plate boundaries where continental crust converges with oceanic crust?

- A. large volcanic mountain ranges parallel to the coast at the center of the continents
- B. a deep ocean trench and a continental volcanic mountain range near the coast
- C. an underwater volcanic mountain range and rift valley on the ocean ridge near the coast
- D. long chains of mid-ocean volcanic islands perpendicular to the coast

7. How far from an earthquake epicenter is a city where the difference between the *P*-wave and *S*-wave arrival times is 6 minutes and 20 seconds?

- A. 1.7×10^3 km B. 9.9×10^3 km
C. 3.5×10^3 km D. 4.7×10^3 km

8. A seismic station recorded the arrival of a *P*-wave at 10:00:00 am. The *S*-wave arrival was recorded at 10:04:20 am. What is the approximate distance between the earthquake epicenter and the seismic station?

- A. 1.1×10^3 km B. 2.2×10^3 km
C. 2.9×10^3 km D. 7.2×10^3 km

9. Through which materials can *P*-waves travel?

- A. solid rock, only
B. magma and water, only
C. magma, water, and natural gas, only
D. solid rock, magma, water, and natural gas

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1.
Answer: D
2.
Answer: C
3.
Answer: C
4.
Answer: A
5.
Answer: A
6.
Answer: B
7.
Answer: D
8.
Answer: C
9.
Answer: D