

MODERN EARTH SCIENCE

Section 4.2

The Theory of Plate Tectonics

Choose the one best response. Write the letter of that choice in the space provided.

_____ 1. Seafloor spreading occurs at which of the following plate boundaries?

- | | |
|---------------|---------------|
| a. divergent | b. transform |
| c. convergent | d. subduction |

_____ 2. The Palo Alto Hills are probably an example of:

- | | |
|------------------------|--------------------------|
| a. a landmass bridge. | b. an island arc. |
| c. a glacial landform. | d. a microplate terrane. |

_____ 3. Which of the following may result from the collision of one plate with another?

- | | |
|--------------------------|-------------------------------|
| a. a convergent boundary | b. a divergent boundary |
| c. a rift valley | d. a transform fault boundary |

_____ 4. Where in the earth do convection currents occur?

- | | |
|-------------------------|----------------------------|
| a. in the lithosphere | b. along a subduction zone |
| c. in the asthenosphere | d. along a rift valley |

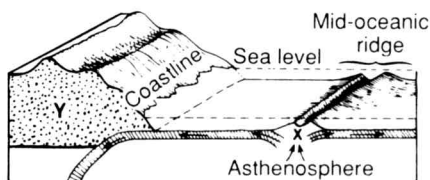
Complete each statement by writing the correct term or phrase in the space provided.

5. A fault formed at the point where two plates slide past each other is called a

_____ .

6. Many scientists believe that the movement of lithospheric plates is caused by

_____ .



7. The term for the type of plate boundary shown at the point labeled X in this diagram is

_____ .

8. The layer labeled Y is the part of the lithosphere known as the _____ .

9. The layer of plastic rock beneath the lithosphere is called the _____ .

10. The theory that proposes a possible explanation of why and how continents move is called the theory of _____ .