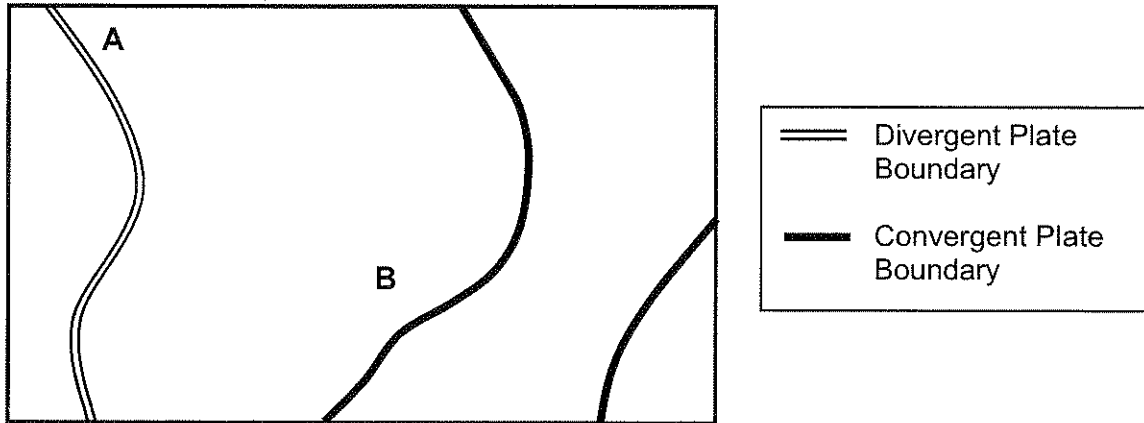


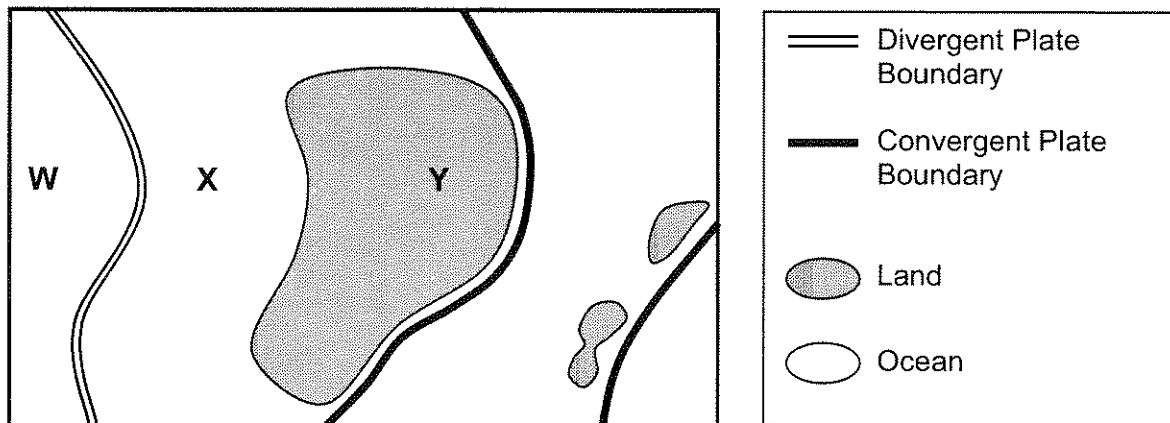
Tectonic Plates and Boundaries

Below is a map showing tectonic plate boundaries. The edges, or boundaries, of the tectonic plates are labeled.



- 1) How many individual tectonic plate boundaries are in the diagram? 1 2 3 4 5 6 7
- 2) How many tectonic plates are in the diagram? 1 2 3 4 5 6 7
- 3) Are A and B on the same tectonic plate? Yes No

Below is a map of the same tectonic plate boundaries. However, this map also shows the location of ocean and land.



- 4) How many tectonic plates are in the diagram? 1 2 3 4 5 6 7
- 5) Why should your answers to Questions 2 and 4 match?
- 6) Are W and X on the same tectonic plate? Yes No
- 7) Are X and Y on the same tectonic plate? Yes No

Tectonic Plates and Boundaries

8) Three students are discussing the tectonic plate on which X is located.

Student 1: *X and Y are both on the same plate because there is no boundary between them, but X is on a different plate than W because there is a divergent boundary between them.*

Student 2: *X and Y are on different plates because X is in the ocean and Y is on a continent. X is on the same plate as W because they are both in the ocean.*

Student 3: *X is on a different plate than both Y and W. There is a divergent plate boundary separating X and W and an edge of a continent separating X and Y.*

With which student do you agree? Why?

9) How is a tectonic plate boundary different than a tectonic plate?

10) Explain why a continent is different than a tectonic plate.