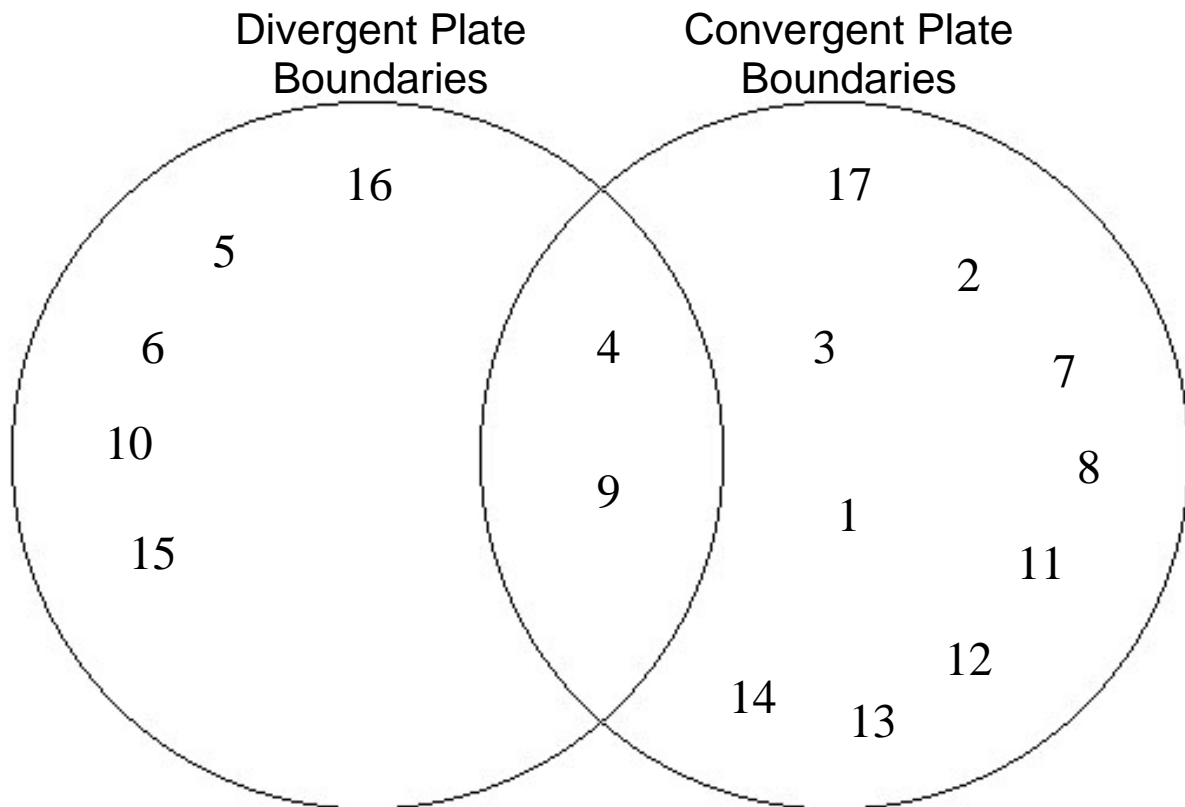


August 27, 2007 – In class assignment

Create a Venn diagram to compare and contrast divergent and convergent plate boundaries. Identify at least 10 characteristics of plate boundaries. Then write the numbers of the features unique to either group in the larger areas of the left and right circles; note features that they share in the overlap area in the center of the image.



1. Rocks on either side of boundary are typically of different ages.
2. Example: Nazca and South American plate boundary.
3. Associated with oceanic trenches.
4. Oceanic lithosphere may be present on both sides of the plate boundary.
5. Only young ocean lithosphere present.
6. Plates move away from each other (divergent boundary).
7. Plates move toward each other (convergent boundary).
8. Often associated with volcanoes.

9. Magma rises to surface at or near the boundary.
10. Causes continents to divide.
11. Causes continents to combine.
12. Mountains present where continental lithosphere involved.
13. Chains of volcanic islands form (island arcs).
14. Continental lithosphere on one side of plate boundary, oceanic lithosphere on the other.
15. Associated with oceanic ridges.
16. Example: Boundary between Nazca and Pacific plates.
17. Deep earthquakes may occur.