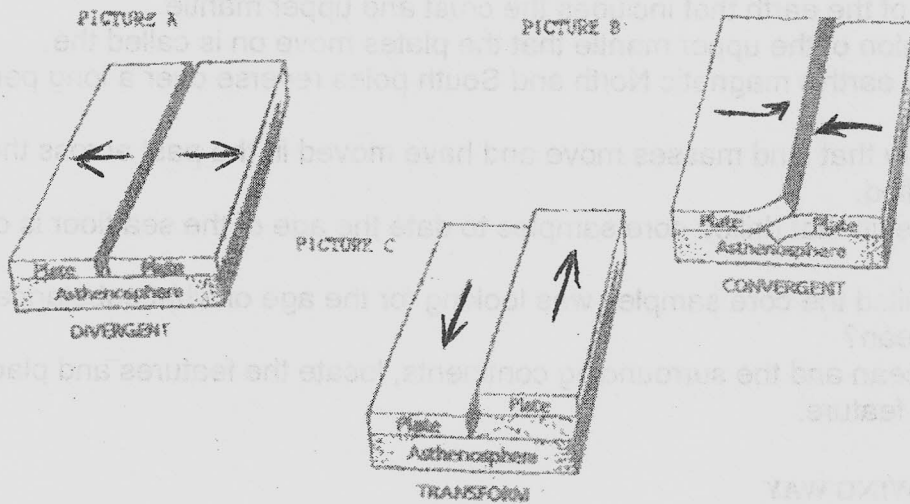


## BOUNDARIES AND PLATE TECTONICS REVIEW

NAME \_\_\_\_\_

HOUR \_\_\_\_\_

Using the pictures below, answer the following questions by placing the letter of the picture that best answers the question in the blank before the number.



- \_\_\_\_\_ 1. A spreading boundary.
- \_\_\_\_\_ 2. A colliding fault.
- \_\_\_\_\_ 3. A transform fault boundary.
- \_\_\_\_\_ 4. The San Andreas fault.
- \_\_\_\_\_ 5. The type of fault found along the Mid-Atlantic Ridge.
- \_\_\_\_\_ 6. The type of boundary common at the Pacific plate.
- \_\_\_\_\_ 7. The type of boundary that may one day move Los Angeles northward next to San Francisco.
- \_\_\_\_\_ 8. The leading edge of this plate sinks into the asthenosphere and under a continental plate forming a deep trench.
- \_\_\_\_\_ 9. Two plates rub past each other in opposite directions.
- \_\_\_\_\_ 10. Iceland, a island in the North Atlantic emerged here.
- \_\_\_\_\_ 11. Has increased the size of the Atlantic ocean by 30 meters since the time of Christopher Columbus.
- \_\_\_\_\_ 12. Forms deep trenches under the sea and composite volcanoes
- \_\_\_\_\_ 13. New crust forms at this boundary.
- \_\_\_\_\_ 14. Plates move apart and form new ocean crust at mid ocean ridges.
- \_\_\_\_\_ 15. May fold rock layers to form large mountain ranges if both are continental crust. Like the Himalayas.

Using the following terms, place the letter of the term in the blank before the number.

- a. Pangaea    b. trenches    c. mid-Atlantic ridge    d. continental drift  
 e. rift    f. lithosphere    g. asthenosphere    h. plate tectonic theory  
 i. sediments    j. Alfred Wegner    k. magnetic reversal    l. glomar challenger

- \_\_\_\_\_ 16. A German scientist that published a theory in 1912 that stated "all the continents were once joined".
- \_\_\_\_\_ 17. A "supercontinent" that broke up about 200 million years ago was called.

- \_\_\_\_\_ 18. Deep canyons under on the ocean floor are called.
- \_\_\_\_\_ 19. Huge underwater mountains in the Atlantic Ocean.
- \_\_\_\_\_ 20. A valley that runs between the underwater mountains in the Atlantic Ocean.
- \_\_\_\_\_ 21. Theory that suggests the surface of the earth is broken into about 20 large sections or plates.
- \_\_\_\_\_ 22. Solid outer shell of the earth that includes the crust and upper mantle.
- \_\_\_\_\_ 23. Partly melted region of the upper mantle that the plates move on is called the.
- \_\_\_\_\_ 24. The idea that the earth's magnetic North and South poles reverse over a long period of time is called.
- \_\_\_\_\_ 25. The idea or theory that land masses move and have moved in the past across the earth's surface is called.
- \_\_\_\_\_ 26. the name of the ship that drilled core samples to date the age of the sea floor is called the.
- \_\_\_\_\_ 27. That ship that drilled the core samples was looking for the age of what substance at the bottom of the ocean?

Using the map of the Atlantic Ocean and the surrounding continents, locate the features and place the letter in the blank before the feature.

**COLOR THE MAP IN THE FOLLOWING WAY**

28. Use red to indicate the fresh lava in the mid-Atlantic rift.
29. Color both trenches green
30. Draw two arrows to indicate the direction of plate movement along the ridge
31. Show the gradual change of young rocks becoming older rocks in the mid-Atlantic ridge. Color the section marked G orange and the section marked H yellow.

