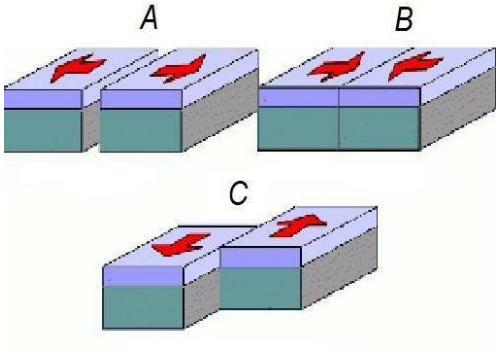
ANSWER KEY

1) **C) Albert Wegener**

2) **E) The continental crust is able to push through the oceanic crust, thus allowing for the movement of the continents.**

Use the following diagram to match the letter choice to the corresponding plate boundary in questions 3—5.



3) __C___ represents a transform boundary.

4) __B___ represents a convergent boundary.

5) __A___ represents a divergent boundary.

6) **B) The San Andreas fault**

7) **The movement of the continental plates is due to convection currents which carry heat from the interior of the Earth to the surface.**

8) **The Pacific Ocean Plate and the North American Plate**

9) **Oceanic plates are denser than continental plates, and are made up of basalts, unlike continental plates, which are made up of granite.**

10) **E**

11) **E**

12) continental divergent boundary, ___Somali Plate_____ and the _____Nubian Plate_____.

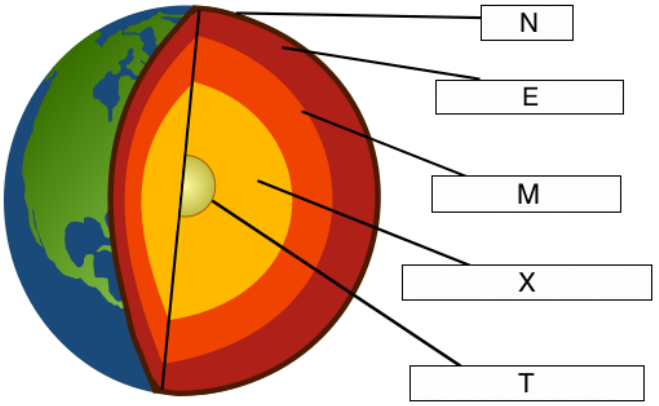
13) List the chemical (compositional) layers of the Earth.

a) _Crust_____, b) _____Mantle_____, c) _____Core_____

14) List the mechanical layers of the Earth.

a) _____Lithosphere_____, b) ____Asthenosphere_____, c) Mesospheric Mantle (Mesophere)_____, d) _____Outer Core_____ , e) _____Inner Core_____

15) Label the mechanical layers of the Earth.



N) _____Lithosphere_____

E) _____Asthenosphere_____

M) _____Mesospheric Mantle (Mesophere)__

X) _____Outer Core_____

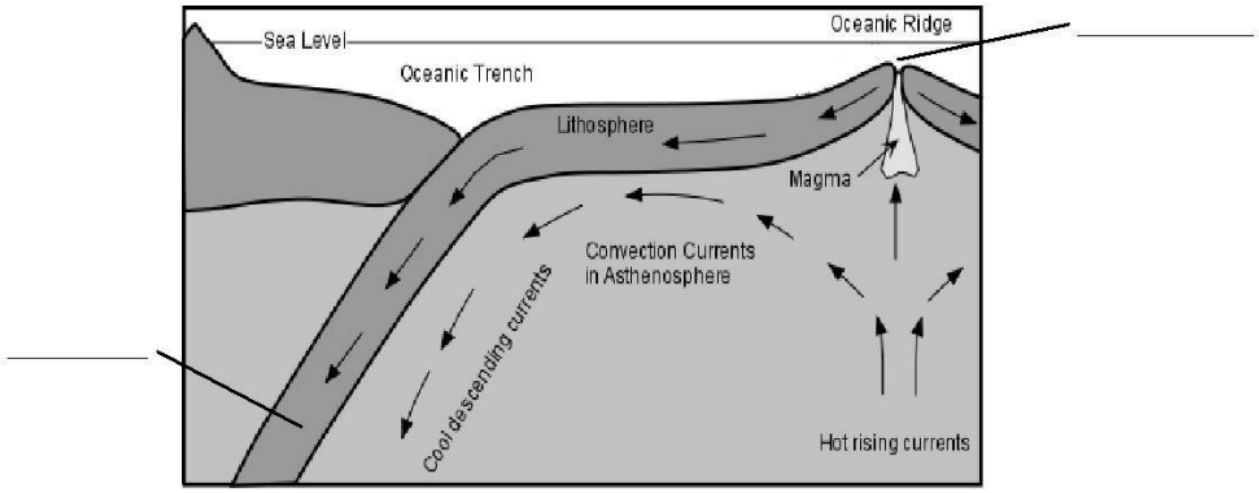
T) _____Inner Core_____

16) **Choices A and C**

17) **C) P-waves are longitudinal waves while S-waves are transverse waves**

18) **D) Mohorovicic Discontinuity**

19) **Answer**—At the lower bottom left, **slab pull**, and the top right corner, **ridge pull**



20) **A) He was the first to conclude that the Earth is made up of different compositional layers after analyzing data that showed as seismic waves traveled throughout the earth, their velocities changed.**

21) **B) Normal fault**

22) __Normal Fault_____ 23) ____Strike-slip fault___ 24) _Reverse Fault____

25) **B) Reverse faults**

26) **C) Strike-slip faults**

27) The cause of hot-spots are ___mantle plumes____.

28) **D) All of the above**

29)**B) Surface waves**

30) **D) ninety-percent**

31) **Isostasy is the balance (equilibrium) between the lithosphere and the asthenosphere, in which denser parts of the lithosphere will sink further into the asthenosphere, than compared to less dense parts which will not sink as low.**

32) **C) Both A and B**

33) __Composite volcano_____ 34) ___Cinder cone volcano__ 35) _Shield Volcano___

36) **A) High pressure and high viscosity of magma**

37) **D) Low pressure and low viscosity of magma**

38) **A) Shield volcano**

39) **C) relative dating**
40) **D) Law of Crosscutting Relationships**

41) **A) CBADE**