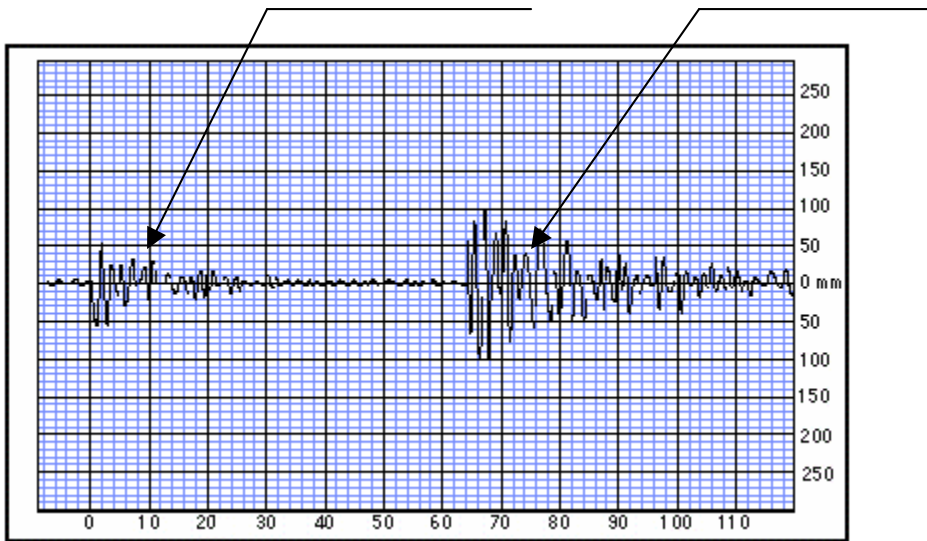


Self-Check Earthquake Waves

1. Earthquake waves come in two types; there are ones that go all the way through the Earth called _____ waves, and ones that travel only on the surface called _____ waves.
2. The fastest of the waves that travel through the Earth is called _____ waves, and the 2nd fastest is called _____ waves.
3. There are two waves that travel along the surface of the Earth, they are _____ waves and _____ waves.
4. Below is a picture of a seismograph. Label the 2 waves.



5. These waves are separated by _____ seconds, because.....(why don't these waves arrive at the same time?)
6. You need a total of _____ seismic stations to determine the location of an earthquake.
7. To determine the magnitude of an earthquake you need to read the amplitude of the wave. What is the amplitude of the above wave? _____ mm
8. Label the following as Normal, Reverse or Transform (strike-slip).



9. Is the transform a Right or Left-lateral? _____
10. Label footwall and hanging wall on the appropriate pictures.

11. Of P and S waves, which one can NOT travel through liquids? _____
 12. This surface wave is damaging to foundations and structures. _____
 13. **True or False:** Earthquake waves can be converted to another type. _____
 14. What is the difference between a fault and a crack?
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15. An earthquake wave's speed is determined by the _____ of the material it is going through and the materials _____ properties.
 16. Describe what elastic rebound theory is and how it applies to earthquakes.