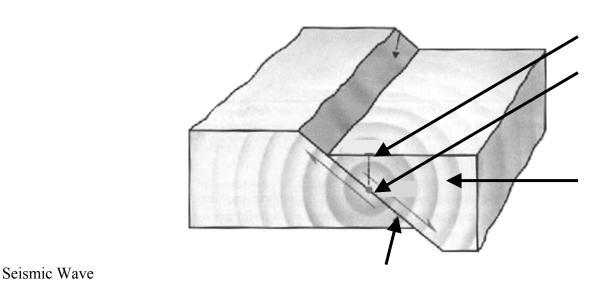
Name	
Date_	

Notes: Earthquakes and Volcanoes

Analyzing Seismic Waves

Fault

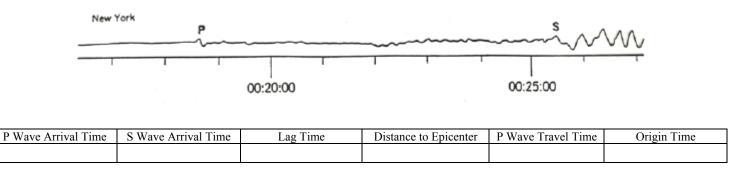


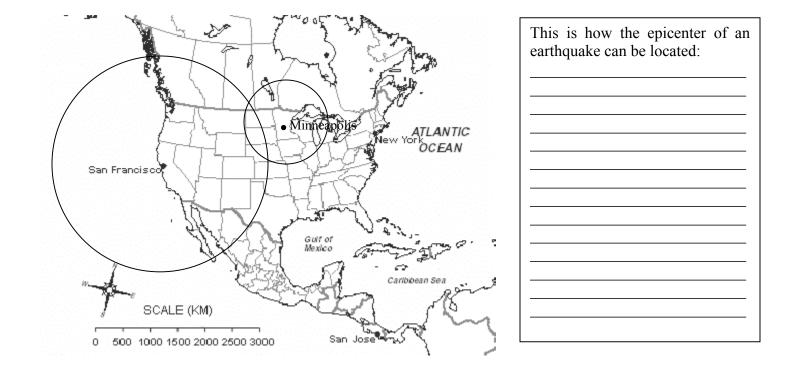
Wave	Velocity (km/sec)	Nature of the Wave

What should happen to the time gap (lag) between the P and S wave as they travel?

Seismic Wave Graph Problems P. of the ESRT can be used to solve these examples 1. Each space of the time axis is equal to 2. Each space on the distance axis is equal to _____ 3. How long would it take a P wave to travel 5200km? 4. How long would it take an S wave to travel 5200km? 5. What is the lag for a recording station that is 5200km from an earthquake's epicenter? 6. If a P wave took 4:20 to reach a recording station how far did it travel? 7. If an S wave took 2:40 to reach a recording station how far did it travel? 8. If a P wave arrived at 3:56:10 and an S wave arrived at 3:57:50 what is the lag? 9. How far away from the epicenter was this recording station? 10. If a P wave arrived at 15:22:30 and an S wave arrived at 15:26:20 what is the lag? 11. How far away from the epicenter was this recording station?

Use the seismograph and map below to complete the chart and locate the epicenter





These are some things I learned, questions I have, or thoughts about the lesson: