



Name _____
Section _____

Finding Epicenters

Lab# _____

Introduction: Earthquakes occur when there is movement along a **fault**. The friction between rock masses rubbing against one another generates shock waves which travel through the Earth. These shock waves (**seismic waves**) created by the earthquake are radiated in every direction from the **focus**, the point within the Earth where the actual movement takes place.

An earthquake occurs every 30 seconds, day after day. Most of these are so weak they would go unnoticed without the use of sensitive modern instruments called **seismographs**.

While seismologists use many stations, in this lab you will use seismograms from three distant stations to locate the **epicenter**, the point on the Earth's surface directly above the focus.

Objective: You will learn to interpret a seismogram and, using differences in seismic waves, locate the epicenter of an earthquake.

Procedure A:

Use the three seismograms provided on page 4, and the *Earthquake P-wave and S-wave Travel Time* chart in the *Earth Science Reference Tables*, to calculate the following for each city: (Fill in all of the required information on the **Report Sheet** on page 5).

1. The arrival times for P and S-waves.
2. The difference in the arrival time between P and S-waves.
3. The distance (in km) of the epicenter from each city.
4. The length of time it took for the P-wave to travel from the epicenter to each city.
5. Since you now know when the P-wave arrived at a city and how long it had to travel, calculate the time at which the P-wave started (Origin Time).

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