



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).

# Lab 4 5 Finding Epicenters Answer Key

**E Durkheim**



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## **Table of Contents Lab 4 5 Finding Epicenters Answer Key**

1. Understanding the eBook Lab 4 5 Finding Epicenters Answer Key
  - The Rise of Digital Reading Lab 4 5 Finding Epicenters Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Lab 4 5 Finding Epicenters Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Lab 4 5 Finding Epicenters Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lab 4 5 Finding Epicenters Answer Key

- Personalized Recommendations
- Lab 4 5 Finding Epicenters Answer Key User Reviews and Ratings
- Lab 4 5 Finding Epicenters Answer Key and Bestseller Lists
- 5. Accessing Lab 4 5 Finding Epicenters Answer Key Free and Paid eBooks
  - Lab 4 5 Finding Epicenters Answer Key Public Domain eBooks
  - Lab 4 5 Finding Epicenters Answer Key eBook Subscription Services
  - Lab 4 5 Finding Epicenters Answer Key Budget-Friendly Options
- 6. Navigating Lab 4 5 Finding Epicenters Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Lab 4 5 Finding Epicenters Answer Key Compatibility with Devices
  - Lab 4 5 Finding Epicenters Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lab 4 5 Finding Epicenters Answer Key
  - Highlighting and Note-Taking Lab 4 5 Finding Epicenters Answer Key
  - Interactive Elements Lab 4 5 Finding Epicenters Answer Key
- 8. Staying Engaged with Lab 4 5 Finding Epicenters Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lab 4 5 Finding Epicenters Answer Key
- 9. Balancing eBooks and Physical Books Lab 4 5 Finding Epicenters Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lab 4 5 Finding Epicenters Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Lab 4 5 Finding Epicenters Answer Key
  - Setting Reading Goals Lab 4 5 Finding Epicenters Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lab 4 5 Finding Epicenters Answer Key

- Fact-Checking eBook Content of Lab 4 5 Finding Epicenters Answer Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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