



## CHAPTER 7—LAB 1: LOCATING EPICENTERS

### Introduction

The epicenter of an earthquake is usually determined by examining seismograms from at least three recording stations. From these records, the distance to the epicenter of the earthquake from each of the recording stations can be determined. Circles drawn on a map around each of the seismic stations are used to locate the epicenter. In addition, the seismic recordings can be used to determine the time at which the earthquake took place and how powerful the earthquake was at its source.

### Objective

To locate the epicenter of an earthquake.

### Materials

Lab Sheets

### Procedure

1. What is the time separation between the vertical lines in Figure 7-8?

(Please note that the times on this chart are shown as Hours: Minutes: Seconds.)

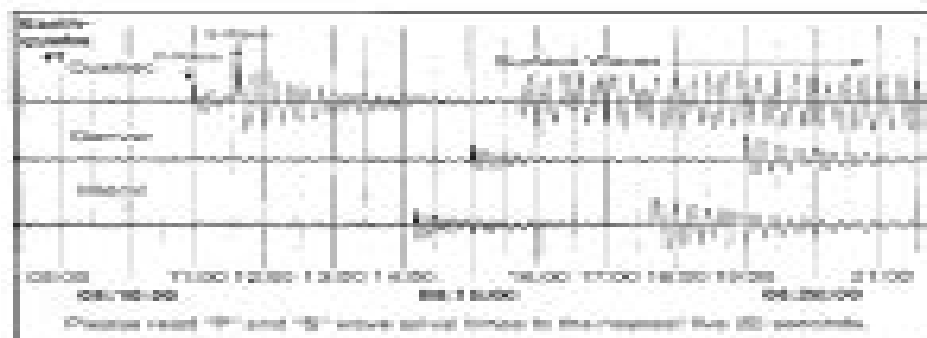


FIGURE 7-8. The test earthquake.

2. Which type of earthquake wave arrives first? \_\_\_\_\_

# Locating An Epicenter Lab Answer Key

**Jiyuan Zhang**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## Locating An Epicenter Lab Answer Key:

*America's Lab Report* National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished *Focus on Earth Science* ,2001 Earth Science ,2001 **ESSA Technical Report ERL-ESL** ,1972 EAS 220 Lab Book ,2007 NOAA Technical Report ERL. United States. National Oceanic and Atmospheric Administration,1973 **Antimicrobial Susceptibility Testing Protocols** Richard Schwalbe,Lynn Steele-Moore,Avery C. Goodwin,2007-05-22 The clinical microbiology laboratory is often a sentinel for the detection of drug resistant strains of microorganisms Standardized protocols require continual scrutiny to detect emerging phenotypic resistance patterns The timely notification of clinicians with susceptibility results can initiate the alteration of antimicrobial chemotherapy and **Integrated Science Laboratory Manual** Michael J. Padilla,2000 Includes 74 investigations pre lab discussions and critical thinking questions safety manual and student safety test teaching support Earthquake Research in NOAA, 1971-1972 J. Carl Stepp,1973 *Essentials of Geology* James Stewart Monroe,Reed Wicander,2002 Wicander Monroe s **ESSENTIALS OF GEOLOGY** 3rd Edition continues the authors tradition of presenting the basic principles and processes of geology in a clear interesting and concise narrative It focuses on how geology relates to the human experience through frequent use of real life examples and applications Lively writing and the use of analogies draw students into the material while a completely integrated pedagogical structure enhances students comprehension of the important and difficult concepts Throughout the text emphasizes the connections between the content and students lives **Aware** ,2001 **Merrill Earth Science** Ralph M. Feather,Susan Leach Snyder,Dale T. Hesser,1995 **ESL** ,1972 The Changing Earth: Teacher's ed ,2005 *Monster Nation* David Wellington,2014-04-01 The second entry in this inventive and exciting

zombie series that began with *Monster Island* Publishers Weekly This is where it begins This is where the end of the world begins She wakes up alone and feeling like she s half dead She can t remember her name She staggers outside looking for help and that s when she sees that the dead have returned to life that zombies are running in the streets and devouring the living And she s one of them She isn t breathing The zombies leave her alone Because they know she s one of their kind And yet she differs from the brainless ghouls around her in some crucial ways Somehow she s kept her intelligence intact if not her memory And being dead has certain compensations She has developed strange powers She calls herself Nilla and all she knows is that staying alive only gets harder after you die Meanwhile the National Guard has its hands full with the worst epidemic ever to strike the American west From California to Colorado every town every city is being overrun Captain Bannerman Clark isn t prepared for this He s semi retired and he hasn t fired a gun in years not since the Vietnam war Yet it seems there s no one else around to take charge As the world we know collapses he must find in himself the brains the guts and the moral courage to lead the survivors to safety if there s any to be had Meanwhile behind the scenes shadowy players are just beginning to show their hands There s more going on here than meets the eye and Clark and Nilla both have parts to play in a game they can t comprehend

*A Fresh Start for Collegiate Mathematics* Nancy Baxter Hastings, Florence S. Gordon, Sheldon P. Gordon, Jack Narayan, 2006 This volume is an outcome of the NSF funded conference Rethinking the Preparation for Calculus which took place in Washington DC in October 2001 P vi

*Science* John Michels (Journalist), 2004 A weekly record of scientific progress

*Glencoe Science* McGraw-Hill Staff, 2001-06

**New York Magazine** , 1987-01-12 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea

**The Monster Island Trilogy** David Wellington, 2017-10-31 The complete horrifyingly entertaining zombie apocalypse trilogy from the author of *99 Coffins* and *23 Hours* Booklist David Wellington combines the scope of *World War Z* the end of the world drama of *I Am Legend* and *The Walking Dead* and mixes in a host of ingenious new concepts to take zombie horror fiction to a breathtaking new level All three volumes of his trilogy are included here telling the story of humanity s monumental struggle to survive an unstoppable global army of flesh devouring monsters

*Monster Island* In search of lifesaving medicine a former UN weapons inspector accompanied by a squad of female African teenagers armed to the teeth ventures into a nightmare New York City overrun by ten million flesh eating zombies

*Monster Nation* In this prequel to *Monster Island* a nightmare plague sweeps across western America transforming humans into cannibalistic living corpses In his efforts to contain the horror a Colorado National Guardsman pursues one female victim who inexplicably retains the ability to reason and possesses remarkable powers that could be the key to humankind s salvation

*Monster Planet* A ravenous

army of the dead sweeps across the globe under the command of a child monster called the Tsarevich Armageddon has arrived and the zombie master a fiendish sorcerer and a courageous young woman will determine the ultimate fate of the human race at the original source of the zombie plague Gripping and gruesome The Monster Island Trilogy is a feast of horrors for every true zombie fan to savor

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