

1. If earthquakes happen because of released energy, why don't they happen on each fault every day?
2. Below, name and tell the difference between the two types of seismic waves.

	NAME	DIFFERENCE
WAVE A)		
WAVE B)		

S-P Time Interval in Seconds (Page 3) - Look at the graph to determine the lag time.

San Francisco	Eureka _____	Elko _____	Las Vegas _____
Southern CA	Fresno _____	Las Vegas _____	Phoenix _____
Japan	Pusan _____	Tokyo _____	Akita _____ (Arf!)
Mexico	Chihuahua _____(Yip!)	Mazatlan _____	Rosarito _____

Determining Earthquake Distance (Page 4) - Use the graph to determine the distance to the epicenter.

San Francisco	Eureka _____	Elko _____	Las Vegas _____
Southern CA	Fresno _____	Las Vegas _____	Phoenix _____
Japan	Pusan _____	Tokyo _____	Akita _____
Mexico	Chihuahua _____	Mazatlan _____	Rosarito _____

Triangulation of the Epicenter (Page 5) Remeasure *S-P Interval*. If you were *very close*, the "View True Epicenter" button will appear. Click it. List how many kilometers you over or under including + or -. Perfect? Just move on.

San Francisco	Eureka _____	Elko _____	Las Vegas _____
Southern CA	Fresno _____	Las Vegas _____	Phoenix _____
Japan	Pusan _____	Tokyo _____	Akita _____
Mexico	Chihuahua _____	Mazatlan _____	Rosarito _____

Compute Richter Magnitude

3. What is the problem with determining the strength of an earthquake by the destruction it causes?
4. Okay, then what do we use to determine the magnitude of a quake?

Richter Magnitude - S Wave Amplitude (Page 9)

San Francisco	Eureka _____	Elko _____	Las Vegas _____	= Magnitude of _____
Southern CA	Fresno _____	Las Vegas _____	Phoenix _____	= Magnitude of _____
Japan	Pusan _____	Tokyo _____	Akita _____	= Magnitude of _____
Mexico	Chihuahua _____	Mazatlan _____	Rosarito _____	= Magnitude of _____