Name		
	Date	
	Hour	

Epicenter Lab

Directions: Use the attached graph to determine distance each seismometer is from the epicenter. Use the scale of 1cm=100km. Complete the chart for each epicenter problem.

1.

	Station Number	S-P Lag Time (s)	Distance to epicenter in (km)	Scale distance to epicenter in (cm)
Ī	1	36		
Ī	2	56		
Ī	3	30		

2.

Station Number	S-P Lag Time (s)	Distance to epicenter in (km)	Scale distance to epicenter in (cm)
1	60		
2	84		
3	72		

X1

x2

Follow –up Questions:					
1) What do the three numbers represent on the inside of each	ach circle?				
2) What do the circles that you drew around each number	represent?				
3) How many seismic stations are necessary to locate the e	picenter of an earthquake?				
4) Look at your answer to question 3 and tell me why you need that many seismic stations to locate the epicenter (why can't you have less than that)?					
Fill in the blanks to complete the paragraph below.					
5) The S - P wave lag time gives the	the earthquake epicenter is to				
that seismic station but not the	Therefore, in order to locate the				
epicenter of an earthquake you need the	of the distances from at				
least seismic stations.					