

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Epicenter Location

Complete the chart below using your knowledge of Earth Science and your ESRTs. Please note that stations A, B, and C are picking up a different earthquake than stations 1, 2, and 3.

Station	Arrival (clock time)		Difference in arrival time min. & sec.	Distance to epicenter (km)	"P" Wave travel time min. & sec.	Time of origin hr, min, & sec
	"P" Wave	"S" Wave				
A	5:33:40	5:36:40				
B	5:40:25	5:48:45				
C	5:37:30	5:43:30				
1	10:23:35	10:30:35				
2	10:23:20	10:30:00				
3	10:18:15	10:20:55				

According to your ESRTs, what is the difference in arrival times of P-waves & S-waves at a seismic station 6,200km away from the epicenter of an earthquake?

If the earthquake occurs at 9:20 am, what time will a seismic station 2,600km away pick up the P-wave?

What time will it pick up the S-wave?