Practice for Regents Part D

Name:_____

Finding Epicenters

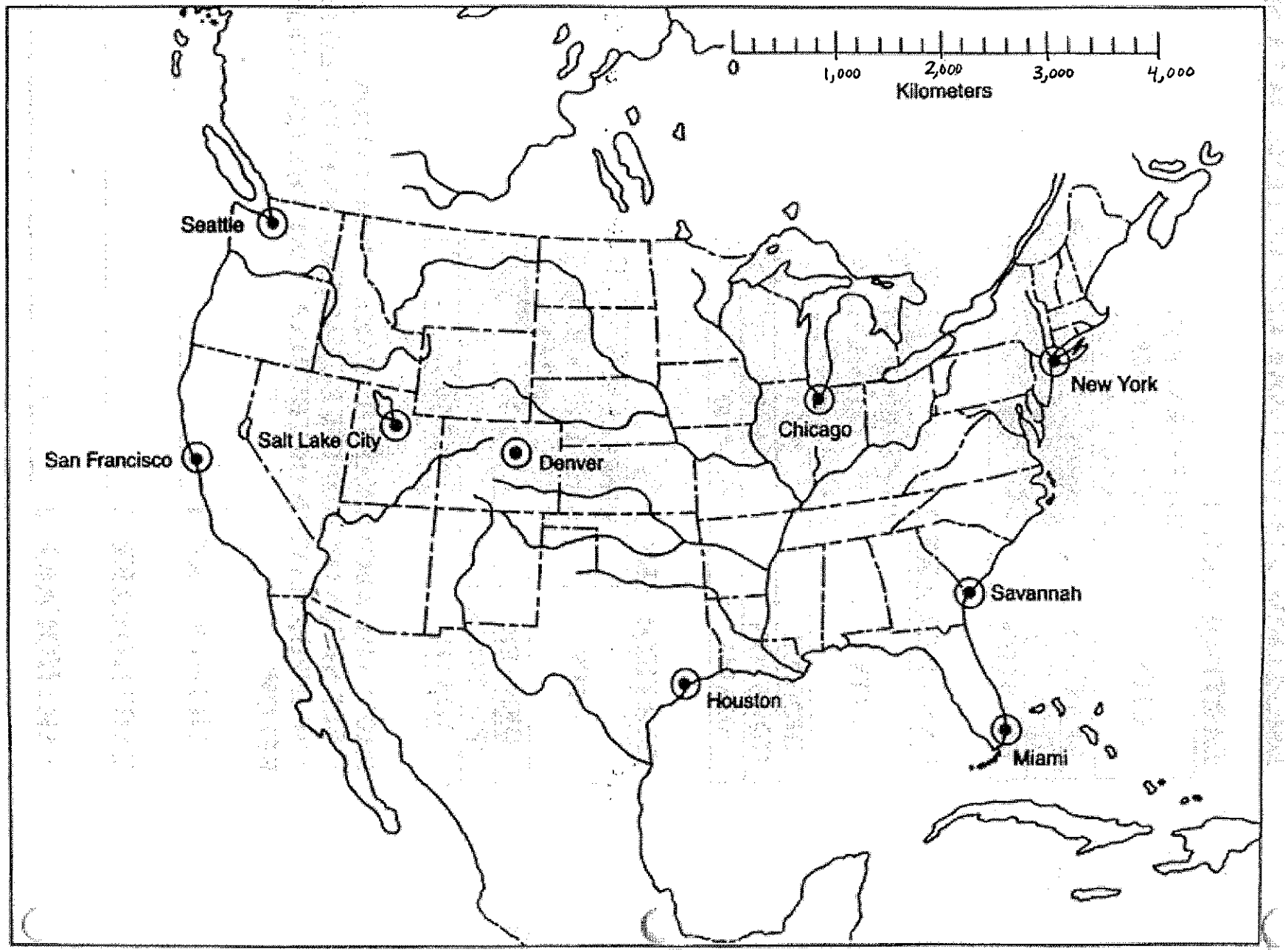
Complete the chart below using your knowledge of Earth Science and your Handy *Dandy Earth Science Reference Tables*. Please note that stations A, B, and C are picking up a different earthquake than stations 1, 2, and 3.

Seismograph 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				
Seattle	5:33:40	5:36:40				
Chicago	5:38:05	5:44:35				
Houston	5:37:30	5:43:30				

According to your Handy Dandy Earth Science Reference Tables, 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?


0
1,000
2,000
3,000
4,000
Kilometers
Seattle
San Francisco
Salt Lake City
Denver
Chicago
New York
Savannah
Houston
Miami