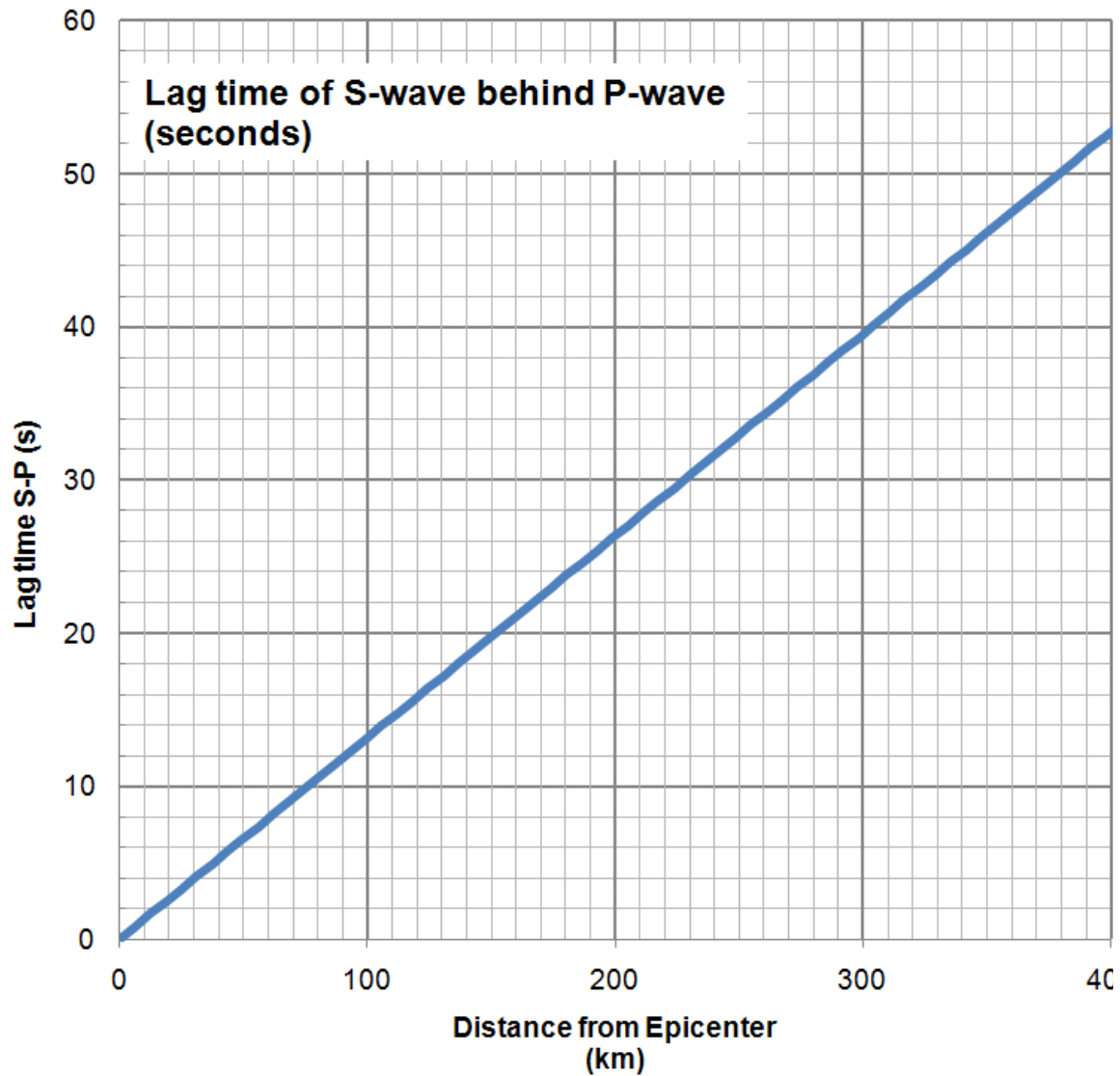


Name (s) Answer key

Date _____

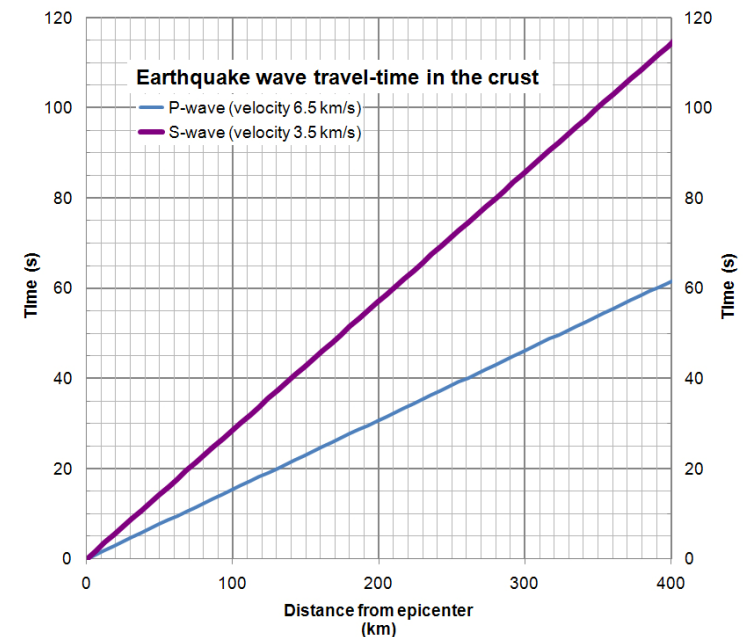
Lag Time Graph:



Data Table:

Distance from epicenter (km)	Travel time P-wave (s)	Travel time S-wave (s)	Lag time S-P wave (s)
0	0 s	0 s	0 s
100	15 s	29 s	14 s
200	31 s	57 s	26 s
300	46 s	86 s	40 s
400	62 s	114 s	52 s

Travel Time Graph:



Mystery Detectives – Mystery Epicenter

Earthguide at Geosciences Research Division, Scripps Institution of Oceanography <http://earthguide.ucsd.edu>
This project produced with support from COSEE California.

GENERAL INFORMATION

P-wave velocity = 6.5 kilometers/s
Distance = Velocity x Time
1 km = 0.62137 miles

S-wave velocity = 3.5 kilometers /s
Time = Distance / Velocity
1 mile = 1.60934 kilometers