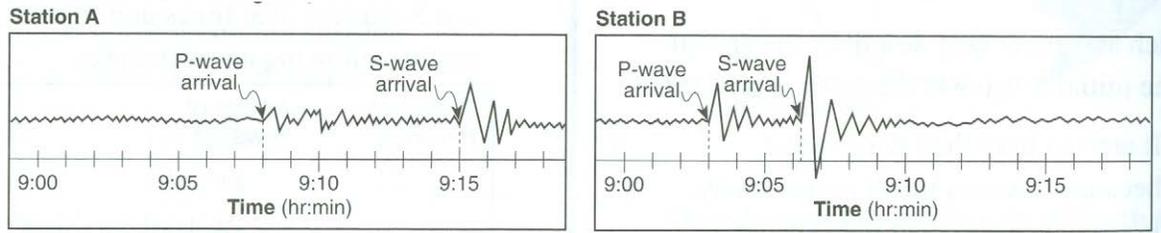


Name: _____

Review Selection #1: Earthquakes



1. Explain how the seismograms recorded at Station A and Station B indicate that Station A is farther from the earthquake epicenter than Station B.
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2. How far from the earthquake epicenter is Station A? _____

3. An earthquake's P-wave arrived at a seismograph station at 2 hours 45 minutes 00 seconds. The earthquake's S-wave arrived 3 minutes later. What is the approximate distance from the seismograph station to the epicenter of the earthquake?

1) 700 km 2) 1800 km 3) 1200 km 4) 2500 km

4. An earthquake's first P-wave arrives at a seismic station at 2:40:00. The distance to the epicenter is 4,000 kilometers. At what time will the first S-wave arrive at the seismic station?

1) 2:34:20 2) 2:52:00 3) 2:54:00 4) 2:45:40

5. An S-wave arrives at a seismic station at 4:30:00. The distance to the epicenter is 5,400 km. At what time did the first P-wave arrive at the seismic station?

1) 4:23:00 2) 4:37:00 3) 4:38:40 4) 4:45:40

6. An earthquake begins at the epicenter at 10:00:00am. The S-wave is first recorded at the seismic station at 10:12:40. At what time did the first P-wave arrive at this station?

1) 9:54:30 2) 10:05:30 3) 9:53:00 4) 10:07:00

7. The origin time of an earthquake is 7:30pm. The P-wave reaches a seismic station at 7:34:20. At what time will the first S-wave reach this station?

1) 7:22:00 2) 7:38:00 3) 7:26:30 4) 7:33:30