

Name: _____ Date: _____ Period: _____

PART 1

Use the ESRTs to complete the following sentences...

1. If the difference in arrival time between the P and S waves is 8 min and 20 sec, the epicenter is _____ away.
2. If the difference in arrival time between the P and S waves is 4 min and 30 sec, the epicenter is _____ away.
3. If the difference in arrival time between the P and S waves is 6 min and 0 sec, the epicenter is _____ away.
4. If the difference in arrival time between the P and S waves is 7 min and 20 sec, the epicenter is _____ away.
5. If the difference in arrival time between the P and S waves is 3 min and 30 sec, the epicenter is _____ away.
6. If the difference in arrival time between the P and S waves is 2 min and 20 sec, the epicenter is _____ away.
7. If the difference in arrival time between the P and S waves is 5 min and 0 sec, the epicenter is _____ away.
8. If the difference in arrival time between the P and S waves is 4 min and 40 sec, the epicenter is _____ away.
9. If the difference in arrival time between the P and S waves is 5 min and 50 sec, the epicenter is _____ away.
10. If the difference in arrival time between the P and S waves is 6 min and 45 sec, the epicenter is _____ away.

PART 2

Use the ESRTs to complete the following sentences...

11. If the P-wave arrival time is 2:05:25 and the S-wave arrival time is 2:08:00, the difference in arrival time is _____ and the epicenter is _____ away.
12. If the P-wave arrival time is 2:13:15 and the S-wave arrival time is 2:22:20, the difference in arrival time is _____ and the epicenter is _____ away.
13. If the P-wave arrival time is 2:08:15 and the S-wave arrival time is 2:13:05, the difference in arrival time is _____ and the epicenter is _____ away.
14. If the P-wave arrival time is 6:22:40 and the S-wave arrival time is 6:26:25, the difference in arrival time is _____ and the epicenter is _____ away.
15. If the P-wave arrival time is 8:56:50 and the S-wave arrival time is 9:03:30, the difference in arrival time is _____ and the epicenter is _____ away.

PART 2

Use the ESRTs to complete the following sentences...

16. If the P-wave arrival time is 10:10:10 and the epicenter is 4,500 km away, the P-wave travel time is _____ and the time of the earthquake was _____.
17. If the P-wave arrival time is 04:35:05 and the epicenter is 7,300 km away, the P-wave travel time is _____ and the time of the earthquake was _____.
18. If the P-wave arrival time is 09:45:59 and the epicenter is 2,000 km away, the P-wave travel time is _____ and the time of the earthquake was _____.