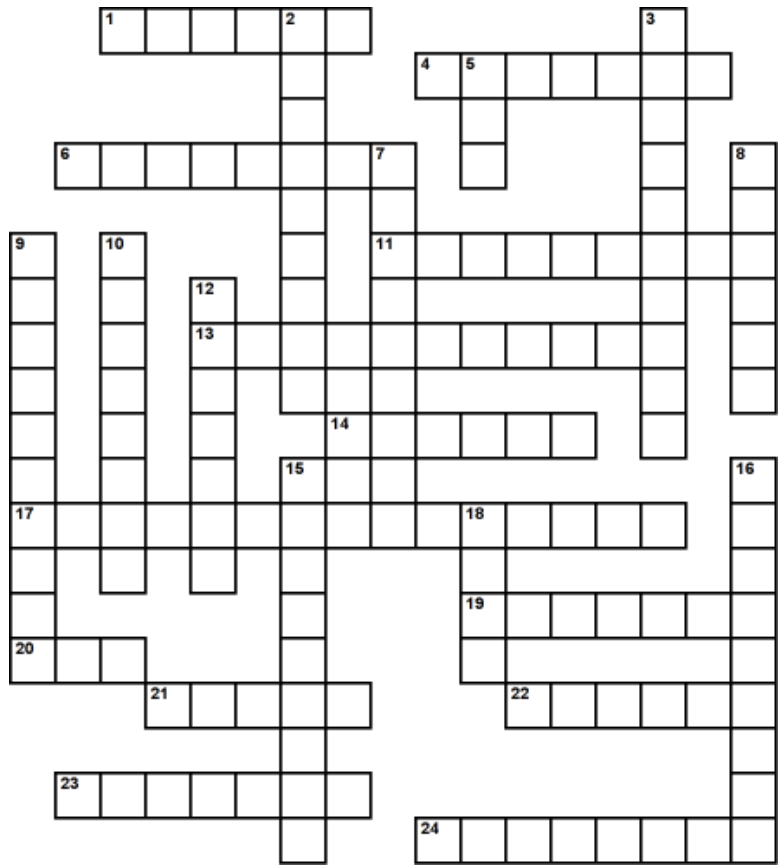


Lesson 5B ver 2

6Feb2015

Across

1. The impedance of the most commonly used coaxial cables (2,4)
4. Six or ten meters may provide long distance communications during the peak of the _____ cycle
6. An _____ in the radiating portion of the antenna to make it electrically longer is a type of antenna loading
11. A _____ prevents radiation of signals when making tests (5,4)
13. _____ light can damage the jacket and allow water to enter coaxial cable
14. A _____ antenna with the conductor parallel to the Earth's surface is horizontally polarized
17. An _____ can be used to determine the resonant frequency of an antenna is (7,8)
19. Tropospheric _____ is responsible for over-the-horizon VHF and UHF communications to ranges of 300 miles on a regular basis
20. _____ is a measure of how well a load is matched to a transmission line
21. _____ lost in a feedline is converted into heat
22. Radio signals travel farther than the line of sight distance because the Earth seems less _____ to radio waves than to light
23. To make a dipole antenna resonant on a higher frequency _____ it
24. Coax connectors exposed to the weather be sealed against water intrusion o prevent an increase in _____ loss



Down

2. Signal reflections may cause _____-_____ distortion (5-4)
3. _____ antenna polarization is normally used for long-distance weak-signal CW and SSB contacts using the VHF and UHF bands
5. _____ signals rarely heard from stations outside your local coverage area because they are usually not reflected by the ionosphere
7. A VHF or UHF mobile antenna mounted in the center of the vehicle roof provides the most uniform _____ pattern?
8. Combining of signals arriving via different path lengths is a cause of _____ of signals from distant stations
9. _____ are likely to increase if VHF or UHF data signals propagate over multiple paths (5,5)
10. Try to find a path that _____ signals to a distant repeater if buildings or obstructions are blocking the direct path
12. Temperature inversions in the atmosphere causes tropospheric _____
15. A directional _____ could replace a SWR meter to measure feedline and antenna matching
16. When VHF signals are being received from long distances, they are being refracted from a _____ layer (8,1)
18. As the frequency of a signal passing through coaxial cable is increased the _____ increases