

5. The surface winds around an area of low pressure normally _____. Above the system, the winds normally _____.
- diverge, converge
 - diverge, diverge
 - converge, diverge
 - converge, converge
6. If, at your home in the Northern Hemisphere, the surface wind is blowing from the northeast, then according to Buys-Ballot's law, the region of lowest surface pressure will be to the _____ of your home.
- west
 - north
 - east
 - south
7. Suppose a pilot flies from a region of cold air into a region of warm air. In the warm air the aircraft is indicating the same altitude as it did in the cold air, yet the aircraft would be flying:
- lower than the altimeter indicates
 - higher than the altimeter indicates
 - at the same elevation that the altimeter indicates
8. If an aircraft flies from standard temperatures into colder than standard air, without making any corrections, the altimeter in the colder air would indicate an altitude:
- higher than the aircraft's actual altitude
 - lower than the aircraft's actual altitude
 - exactly the same as the aircraft's altitude
9. In the Northern Hemisphere directly above you (at about 10,000 feet), clouds are moving from south to north, indicating a south wind. From Buys-Ballot's law you know that the center of lowest pressure aloft must be to the _____ of you.
- west
 - east
 - north
 - south
10. On a weather map, the strongest winds are normally observed:
- at the center of high pressure
 - at the center of low pressure
 - near a large body of water
 - where the isobars or contour lines are close together