

Subsection 1 - Physics of the Atmosphere Level 1

1. A barometer indicates
 - a) pressure *
 - b) density
 - c) temperature

2. A pressure of one atmosphere is equal to
 - a) 14.7 psi *
 - b) 100 millibar
 - c) 1 inch Hg.

Subsection 2 - Aerodynamics Level 1

3. An aircraft stall speed
 - a) increases with an increase in all up weight *
 - b) remains constant with an increase in all up weight
 - c) decreases with an increase in all up weight

4. As the speed of an aircraft increases, the profile drag
 - a) increases *
 - b) decreases
 - c) decreases at first then increase

Subsection 3 - Theory of Flight Level 1

5. A boundary layer fence on a swept wing will
 - a) improve the low speed characteristics *
 - b) improve the high speed characteristics
 - c) increase the critical Mach Number

6. A stall warning device must be set to operate
 - a) at the stalling speed
 - b) at a speed just above stalling speed *
 - c) at a speed just below stalling speed

Subsection 4 - Flight Stability and Dynamics Level 1

7. A high wing position gives
 - a) more lateral stability than a low wing *
 - b) less lateral stability than a low wing
 - c) the same lateral stability as a low wing

8. Dutch Roll is
 - a) a combined rolling and yawing motion *
 - b) a type of slow roll
 - c) primarily a pitching instability

