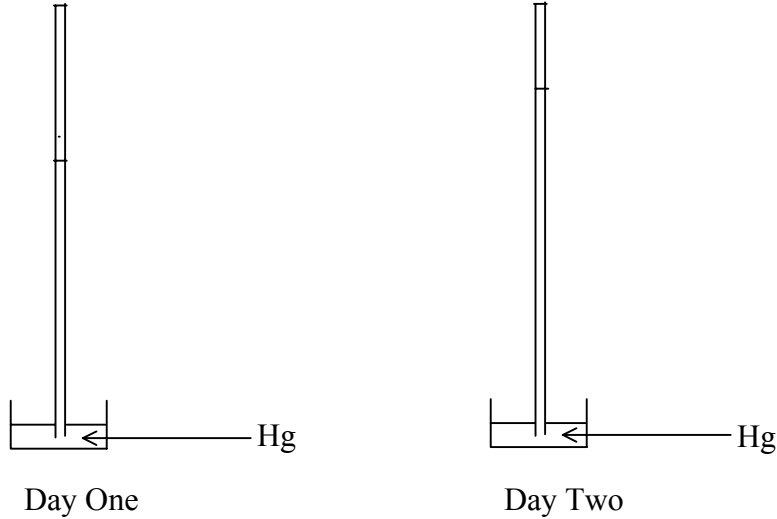


Question on the concept of barometers:



According to the diagrams above, for a barometer on two different days, which day has a higher atmospheric pressure? Assume the barometer remains in the same location for the two days.

1. Day One
2. Day Two
3. Both days have the same atmospheric pressure.
4. Not enough information is given.

Correct Answer: 2. Day Two

Comment to Instructor: Before presenting this question, explain how a barometer is made (top end of tube being sealed, and the bottom end open to a tub of Hg). Choice 4 is possible if students want to take into account that the temperatures may be different on the two days. However, point out to them that temperature corrections to a barometric reading is for the scale used for measuring the height of the mercury column and these corrections are much smaller than depicted by the difference between the two diagrams shown.
