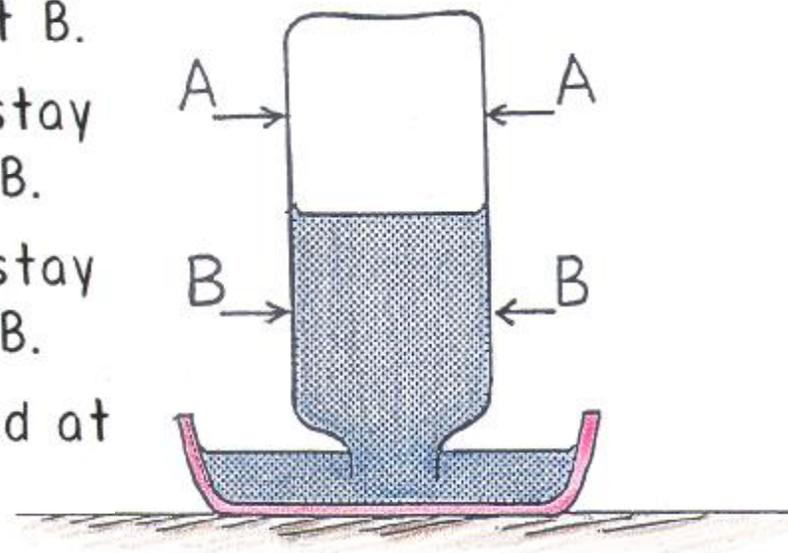


## NEXT-TIME QUESTION

Consider a flexible plastic bottle containing both air and water immersed neck down in an open dish of water. The water level in the bottle will

- a) fall if pinched at A but rise if pinched at B.
- b) fall if pinched at A or at B.
- c) fall if pinched at A but stay where it is if pinched at B.
- d) rise if pinched at A but stay where it is if pinched at B.
- e) stay where it is if pinched at A or at B.

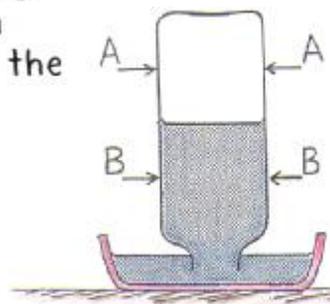


Hewitt  
Draw it!



# NEXT-TIME QUESTION

Consider a flexible plastic bottle containing both air and water immersed neck down in an open dish of water. The water level in the bottle will



- a) fall if pinched at A but rise if pinched at B.
- b) fall if pinched at A or at B.
- c) fall if pinched at A but stay where it is if pinched at B.
- d) rise if pinched at A but stay where it is if pinched at B.
- e) stay where it is if pinched at A or at B.

**Answer: c**

Pinching the bottle at A compresses the air within the bottle, which pushes water out the neck of the bottle into the open dish until air pressure inside and outside the bottle is practically the same. The water level in the bottle is lowered. Pinching the bottle at B simply forces water out the neck and into the open dish, rather than rising and compressing the air above. Again, air pressure inside and outside the bottle is the same.

After thinking about this, did you experiment?  
If so, place a gold star on your forehead!



Hewitt  
Drewit!