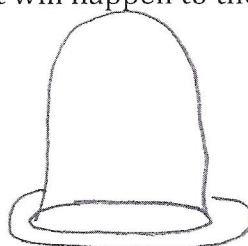
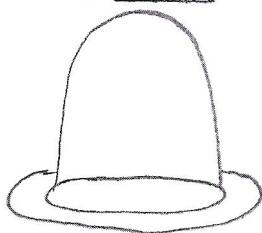


1. Write the formula for Boyle's Law:
2. Is the relationship in Boyle's Law a direct or indirect relationship?
3. What variable is held constant in Boyle's Law?
4. Write the formula for Charles's Law:
5. Is the relationship in Charles's Law a direct or indirect relationship?
6. What variable is held constant in Charles's Law?
7. In the Bell Jar Demo.... - Changing the pressure in the bell jar.

Draw the Peep BEFORE.... Predict (Draw) what will happen to the Peep AFTER....

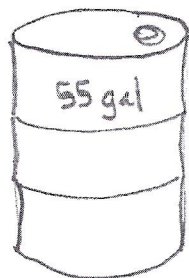


8. If the peep had a total volume of 67 mL in the room (a pressure of 0.97 atm), what will his/her new volume be when the air is removed and the pressure drops to 0.21 atm?

9. **Going outside...** We will heat the air inside a 55 gallon drum, seal the drum and cool it off QUICKLY. I have drawn the before drum, you PREDICT what will happen when we cool it off QUICKLY.

Before

After



10. If the temperature of the steam inside the 55 gallon drum is 102°C and the temperature outside the drum when we cool it quickly is 23°C, what is the final volume of the drum?
(Hint: you need to convert gal to L (look @ the google), and temp must be in K.)