**6.2 – District 6 Extra Practice**

1. A toy balloon tends to become spherical when inflated because**:**

1. gases exert pressure equally in all directions
2. the balloon contains carbon dioxide
3. air tends to be permeable
4. the rubber used in balloons contains impurities.

2. When a bottle of perfume is opened, its fragrance spreads quickly all over a room.

This is an example of

1. molarity
2. compressibility
3. diffusion;
4. expansibility.

3. Convert the following Celsius temperatures to the corresponding temperatures on

the Kelvin scale**:** (a) 300C; (b) –1150C.

4. To what temperature must 390 ml. of a gas at 1560C be changed in order

to occupy 250 ml?

5. A gas measures 50 ml. at a temperature of -230C. Find its volume at 230C when

there is no change in the original pressure of the gas.

6. A gas has a volume of 2,000 ml. when a pressure equivalent to 760 mm of mercury

is exerted upon it. Calculate the volume when the pressure is reduced to 740 mm.

7. A 40.0 L tank of ammonia has a pressure of 8.00 atm. Calculate the volume of the ammonia if its pressure is changed to 12.0 atm while its temperature remains constant.

8. At 27.00 °C a gas has a volume of 6.00 L. What will the volume be at 150.0 °C?

9. A gas has a pressure of 0.370 atm at 50.0 °C. What is the pressure at standard temperature?