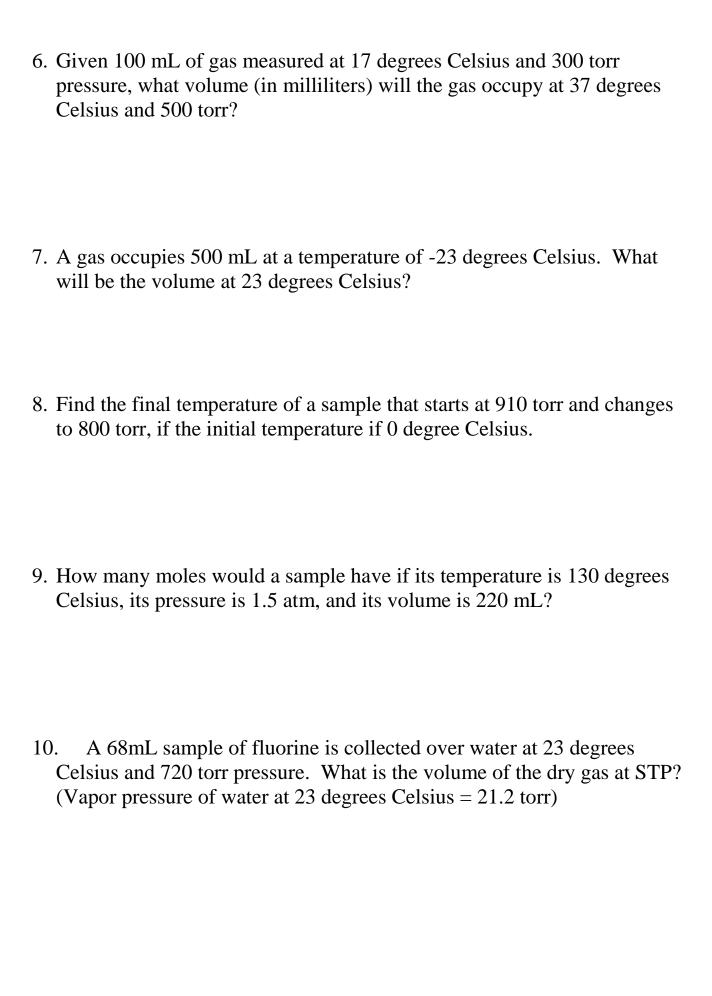
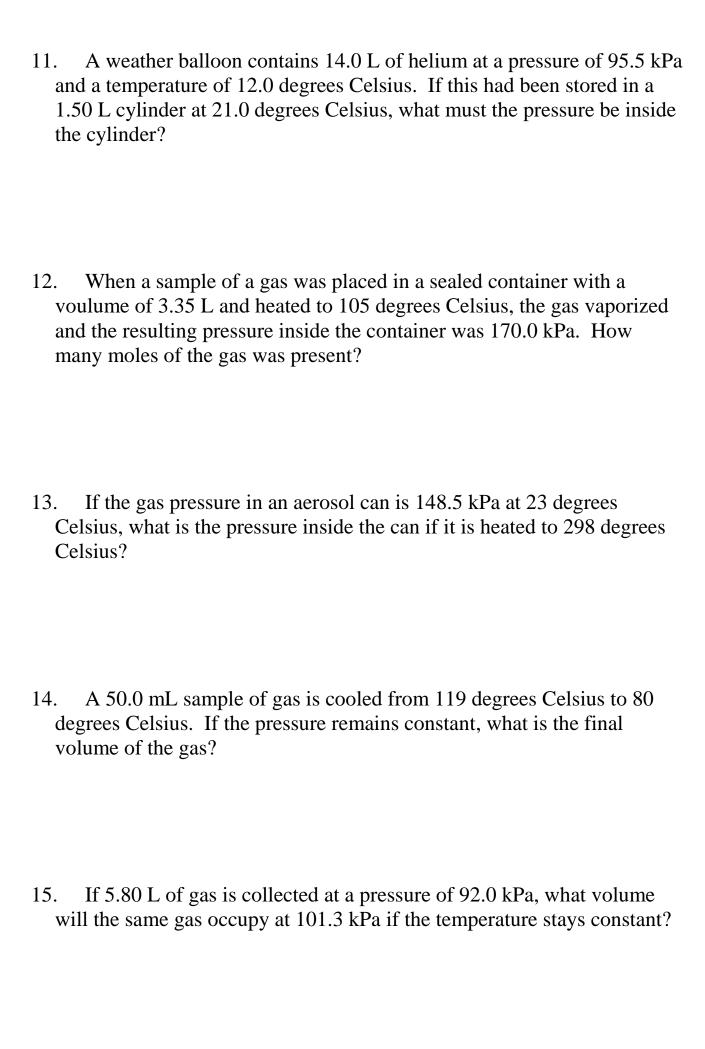
Name Answer the following questions. Be sure to list your variables and draw an arrow to represent your prediction for the answer!
1. The pressure of a sample of helium in a 4.25 L container is at .93 atm. What is the new pressure, in kPa, if the sample is placed in a 600 mL container?
2. What is the volume of the air in a balloon that occupies 2.40 L at 91°C if the temperature is lowered to -11°C?
3. A rigid plastic container holds 0.30 L methane gas at 935 torr pressure when the temperature is 27.0°C. How much pressure will the gas exert in the temperature is raised to 79.3°C?
4. What is the volume of the air in a balloon that occupies 0.840 L at 29°C if the temperature is lowered to -31°C?
5. Some oxygen occupies 250 mL when its pressure is 720 mm Hg. How many milliliters will it occupy when its pressure is 750 mm Hg?

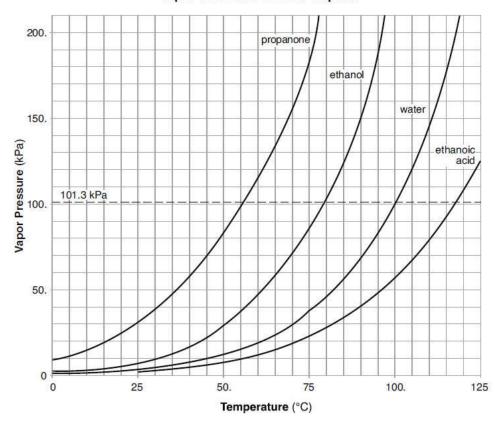




16. Matching Vocabulary

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Diffusion	a) A substance that meets all of the assumptions of the KMT
Expansion	b) The process by which a gas escapes a tiny opening due to
KMT	c) The process of a gas flowing from high concentration to lower concentration
Effusion	d) theory that states gases move rapid and randomly and have elastic collisions
Volatile	e) the ability for a particles to move past one another due to lack of attractions
Fluidity	f) a substance that has low intermolecular forces
Ideal Gas	g) the ability for a gas to spread out

Table H Vapor Pressure of Four Liquids



Use table H for the questions below.

- a) Which gas is the most volatile?
- b) Which gas is the least volatile?
- c) Which gas has the weakest intermolecular forces?
- d) What is the normal boiling point for a) propanone? b) ethanol?