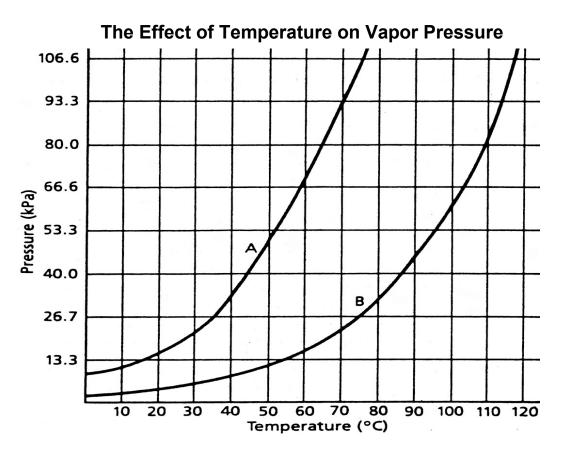
gave in your answer to #9?

The vapor pressure of a gas above its own liquid depends on temperature. The boiling point, or temperature at which bubbles of vapor form within a liquid, depends upon both vapor pressure and atmospheric pressure. The following graph shows the vapor pressure curves for two substances A and B.



Use the graph above to answer the following questions:

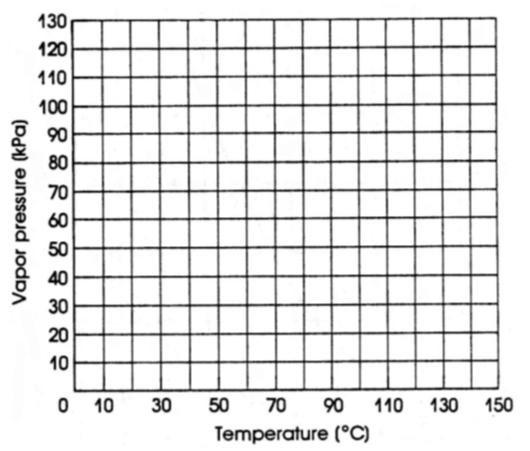
	• .
1. What is the vapor pressure of A at 35°C?	
2. What is the vapor pressure of B at 35°C?	
3. At what temperature is the vapor pressure of liquid A 106.6 kPa?	
4. What is the vapor pressure of B at this temperature?	
5. At what temperature is the vapor pressure of B 106.6 kPa?	
6. What is the "normal" boiling point of A?	
7. What is the "normal" boiling point of B?	
8. Which liquid has stronger intermolecular forces? Explain?	
O At what to remove the could A hail in Danier where at reason begin	massaura in 02 2 kDa2
9. At what temperature would A boil in Denver, where atmospheric	pressure is 93.3 kPa?

10. What would the atmospheric pressure have to be in order for B to boil at the same temperature, as you

The following table shows the vapor pressure of a certain liquid at various temperatures. Graph the data in the table provided.

Temp °C	Pressure (kPa)	Temp °C	Pressure (kPa)	Temp °C	Pressure (kPa)
10	2	60	22	110	68
20	4	70	29	120	80
30	7	80	37	130	93
40	11	90	46	140	107
50	16	100	56	150	122

The Effect of Temperature on Vapor Pressure



What effect does rising temperature have on vapor pressure?	
Regardless of its temperature, a liquid will boil, when	·
If atmospheric pressure was 96 kPa, what would the boiling point of the substance be?	
What would happen to the boiling point, if the atmospheric pressure began to rise? Explain.	

5. How would the cooking time of an egg, that is to be hard boiled, be affected by high altitude? Explain.