

Chapter 13 Worksheet

- 1) Circle the compound in each pair that has the higher melting point.
- a. HF or KF
 - b. Cl₂ or F₂
 - c. Zn or Kr
 - d. CO or NH₃
 - e. CHCl₃ or CF₄
- 2) You have a cup of ice-water at equilibrium that contains 12 grams of ice and 46 grams of water. An hour later, the cup contains only water at room temperature (22°C). How many kJ of heat flowed into the ice-water from the surroundings? Hint: What's the initial temperature?
- 3) At room temperature, X is a gas, Y is a liquid, and Z is a solid. Which set of boiling points could be correct? Remember that room temperature is about 22°C.

	a.	b.	c.	d.
X	100°C	200°C	5°C	500°C
Y	150°C	50°C	50°C	100°C
Z	200°C	5°C	200°C	200°C

Answers

- 1) KF, Cl₂, Zn, NH₃, CHCl₃
- 2) 9.34 kJ
- 3) c