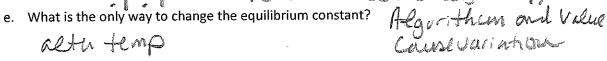
A(aq) + B(aq)	\rightarrow C(aq)
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- 1. The beaker below is an equilibrium expression. Answer the following questions. Reaction is being run at 25C.
 - a. Write the equilibrium expression for this reaction.
 - b. Is the K value for this substance bigger or smaller than 1?
 - c. Would you consider this reaction (product favored/reactant favored)
 - d. Each letter will represent 0.1M, what is the value of K?



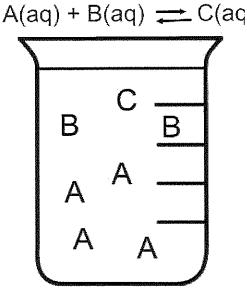


- 2. To the right is another beaker with the same reaction as above at 25C.
 - What is the K for this reaction?

b. Each letter represents a 0.1M concentration, Determine the reaction quotient or this reaction.

- c. Is this reaction
 - i. At equilibrium? NO
 - ii. Too much reactant?
 - iii. Too much product? 🙌 🔾

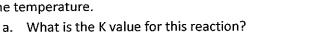




- d. Given time all reactions will achieve equilibrium. To achieve equilibrium this reaction will
 - i. Stay where it is.
 - ii. Loose product and gain reactant
 - iii. Loose reactant and gain product.

5. Temp - Changlo K

3. To the right is another beaker running the same reaction at the same temperature.

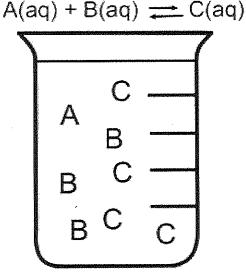


b. What is the reaction quotient for the reaction to the right?

(each letter represents 0.1M)

- c. Is this reaction
 - i. At equilibrium? 🏄 🔾
 - ii. Too much reactant? 420
 - iii. Too much product? 📈 🖔

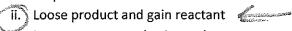




- d. Given time all reactions will achieve equilibrium. To achieve equilibrium this reaction will
 - i. Stay where it is.
 - Loose product and gain reactant
 - iii. Loose reactant and gain product.
- 4. To the right is another beaker running the same reaction at the same temperature.
 - a. What is the K value for this reaction?

b. What is the reaction quotient for the reaction to the right? (each letter represents 0.1M)

- c. Is this reaction
 - i. At equilibrium?
 - ii. Too much reactant?
 - (iii.)Too much product?
- d. Given time all reactions will achieve equilibrium. To achieve equilibrium this reaction will
 - i. Stay where it is.



iii. Loose reactant and gain product.

