Name:		Class:	Date:		ID: A
Practice	Quiz Q7 Equilibriu	m Q vs K (#11-3	a 3b)		
Multiple C Identify the	Choice choice that best comple	etes the statement or a	nswers the question.		
1.	specific conditions the produced? I. Increasing the temperature of the produced in the temperature of the produced in the pro	s in the business of sel amount of Z in producerature.		the chemical reaction for changes might increase	
2.	Energy + X(s) + 2Y(aq) ⇔ 3Z(g) + W(l) Kc = 10 A chemical company is in the business of selling "Z". W is a toxic by product that costs the company to dispose of in an environmentally friendly manner. Which of the following statements is <u>False</u> relat the reaction under various conditions.				
	b. When the concentc. Reducing X will h	ave no effect on the p	onstant the reaction has		
3.	following is true. I Given enough time.	vessel contains 2 mo [C] will exceed [B] ceeding toward the pro	No love don't	s) nole of each product. W Know the Kook um. Dont Know	ہے۔
		<u>a</u>	AAA	121 ECT	1 5.5

Short Answer

4.

Sodium hydroxide is mixed with iron (III) nitrate forming solid iron (III) hydroxide

1. For the solubility reaction please indicate the following

a) Net ionic equation (#7-2b1)
$$3OH + Fe^{+s} = Fe(OH)_3$$

or $Fe(GH)_3 = Fe^{-4s} + 3OH + Fe^{-4s} + 3OH +$

2. If the previous mixture was of a 100 mL of .01M Sodium hydroxide and 100 mL of .05M Iron (III) nitrate. Answer the following questions. Ksp_{(Fe(OH)3)} = 8E-16

a) Write the Ksp expression(#11-2) $\frac{\text{Ksp}}{\text{Fe}^{3+}} \frac{\text{CFe}^{3+}}{\text{Coulomb}} \frac{3}{\text{Coulomb}}$

b) Determine the concentration of each ion after the solutions are <u>mixed</u> before equilibrium has been established. (#7-2c) M.V. = M2 V2 Or Vilves double = 1/2 Care.

c) Determine Q. (#11-4a)

d) Indicate if a precipitation will occur. Justify. (#11-4a)

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$$[.005]^3[0.025] = 3.125 \in -9$$

3. energy + A(g) + B(g) = C(g) + D(s)

Given the following reaction at equilibrium in a closed container at 500C, predict the effect of each of the following changes on the concentration of C present at equilibrium.

- a) Reducing the volume? (#11-4b)
- b) Addition of D (#11-4b)
- c) Indicate one way to increase the value of K? (#11-4b)