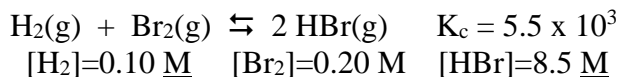


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_ Seat #: \_\_\_\_\_

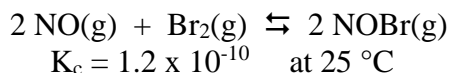
Check off each item if you can do the question. Write down a question to ask if you cannot do the question.

**Reaction Quotient**



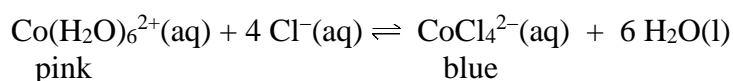
What will happen to the [HBr] as this reaction approaches equilibrium? (Show your calculation.)

**K<sub>p</sub> & K<sub>c</sub>**



Write the K<sub>p</sub> expression for this reaction and calculate its value. [R = 0.0821 L·atm/mol·K]

**Le Châtelier's' Principle Demo**



- |                               |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|
| a) add HCl(aq)                | _____ | _____ | _____ | _____ |
| b) add H <sub>2</sub> O(l)    | _____ | _____ | _____ | _____ |
| c) increase the temperature   | _____ | _____ | _____ | _____ |
| d) decrease the temperature   | _____ | _____ | _____ | _____ |
| e) add AgNO <sub>3</sub> (aq) | _____ | _____ | _____ | _____ |

Note:

Predict (a) and (b) before the demonstration.

Watch (c) and determine whether the reaction is endo- or exo-thermic.

Predict (e) before the demonstration.