34.	Cu the Ni +	ell is made up as follows. A piece of Ni foll is immersed in a beaker of NiCl ₂ solution, and a strip of toil is immersed in a beaker of CuSO ₄ solution. The metal electrodes are connected by a wire and beakers connected by a salt bridge. The net ionic equation for the reaction is: $-Cu^{2+} \longrightarrow Ni^{2+} + Cu$ Which electrode is the anode?
	(b)	Toward which electrode do the SO_4^{2-} ions migrate?
	(c)	Which way do the electrons flow in the wire?
	(d)	If 0.025 mol of Cu(s) is produced in the reaction, how many moles of electrons flow through the wire?
	(e)	Toward which electrode do the Ni^{2+} ions migrate after being formed?

 (a) What is the net ionic equation for the reaction? (b) Which electrode is the cathode? (c) Toward which electrode do the Ag⁺ ions migrate? (d) Which way do the electrons flow in the wire? (e) Does the Ag electrode gain or lose mass? (f) If 0.010 mol of Sn(s) goes into solution, how many moles of electrons flow through the wire? (g) If 0.020 mol of Sn goes into solution, how many moles of Ag are involved in the reaction? (h) How many moles of electrons flow through the salt bridge in part (g)? 	35.	An electrochemical cell is made by placing a weighed strip of Sn in a beaker containing 1 M $\rm SnSO_4$ and a weighed strip of Ag in a beaker containing 1 M $\rm AgNO_3$. The metal strips are connected by a wire and the beakers are connected by a salt bridge. After several hours the Sn electrode decreases in mass.
 (c) Toward which electrode do the Ag⁺ ions migrate? (d) Which way do the electrons flow in the wire? (e) Does the Ag electrode gain or lose mass? (f) If 0.010 mol of Sn(s) goes into solution, how many moles of electrons flow through the wire? (g) If 0.020 mol of Sn goes into solution, how many moles of Ag are involved in the reaction? 		(a) What is the net ionic equation for the reaction?
 (d) Which way do the electrons flow in the wire? (e) Does the Ag electrode gain or lose mass? (f) If 0.010 mol of Sn(s) goes into solution, how many moles of electrons flow through the wire? (g) If 0.020 mol of Sn goes into solution, how many moles of Ag are involved in the reaction? 		(b) Which electrode is the cathode?
 (e) Does the Ag electrode gain or lose mass? (f) If 0.010 mol of Sn(s) goes into solution, how many moles of electrons flow through the wire? (g) If 0.020 mol of Sn goes into solution, how many moles of Ag are involved in the reaction? 		(c) Toward which electrode do the Ag ⁺ ions migrate?
(f) If 0.010 mol of Sn(s) goes into solution, how many moles of electrons flow through the wire?(g) If 0.020 mol of Sn goes into solution, how many moles of Ag are involved in the reaction?		(d) Which way do the electrons flow in the wire?
(g) If 0.020 mol of Sn goes into solution, how many moles of Ag are involved in the reaction?		(e) Does the Ag electrode gain or lose mass?
		(f) If 0.010 mol of $Sn(s)$ goes into solution, how many moles of electrons flow through the wire?
(h) How many moles of electrons flow through the salt bridge in part (g)?		(g) If 0.020 mol of Sn goes into solution, how many moles of Ag are involved in the reaction?
		(h) How many moles of electrons flow through the salt bridge in part (g)?