## Sample pH problem (in reverse)

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$$log[H_3O^{1+}] = 2.30$$
  
 $[H_3O^{1+}] = 10^{-pH} = 10^{-2.30} = 5.0 \times 10^{-3} M$   
Therefore, the initial  
 $[HCI] = 5.0 \times 10^{-3} M$