Exam 3: Most common mistakes, most likely difficulties

- Most common mistakes
 - Sig figs, especially with logs
 - Algebra, arithmetic, not using calculator properly
 - Stoichiometry
 - \Box Negative exponent means small number (e.g., $10^{-7} < 10^{-3}$)
 - □ "p" means "negative log of"
- Most likely difficulties
 - Confusion over how to build molecular structures from formulas (where do H's attach, which H is the acidic one)
 - Unable to break apart ionic compounds into constituent ions
 - Tough to reason clearly when under pressure
 - Unable to recognize conjugate acid-base pairs or write down the formula (with correct charge) of a conjugate
 - Don't understand significance of value of one reaction's equilibrium constant in comparison to a different reaction's K
 - Memorized solution of group problems without fully understanding
 - Unable to recognize strong vs. weak, acid vs. base