Questions

1. What is the role of flavor SU(3) in the quark model?
2. Why is color needed?
3. What are the two lowest mass meson multiplets?
4. What is the difference between these two multiplets?
5. What quantum numbers do members of a multiplet have in common?

6. How do you get scalar ($J^P = 0^+$) mesons?
7. And given those, what other closely associated multiplets do you expect? Are these filled?
8. What explains the K - K^* mass difference?