

**Quiz A for 9:45 Class: 7/29/13**

Name \_\_\_\_\_

Assume there is a 35% chance that Falling Apple's EBIT will equal \$45 million per year, a 45% chance that Falling Apple's EBIT will equal \$75 million per year, and a 20% chance that Falling Apple's EBIT will equal \$120 million per year.

- a. What is Falling Apple's optimal level of interest payments if capital markets are perfect? Note: No need to justify your answer.
- b. How will Falling Apple's optimal level of interest payments change (compared to a) if the corporate tax rate equals 25%?
- c. How will Falling Apple's optimal level of interest payments change (compared to b) if the corporate tax rate equals 25%, the personal tax rate on equity income is 15%, and the personal tax rate on ordinary income is 20%? Justify your answer.
- d. How will Falling Apple's optimal level of interest payments change (compared to c) if there is the potential for conflict of interest between the firm's stockholders and managers? Note: No need to justify your answer.