

Name	Kec	1

Note: There are no points for solving this problem. All points are for setting up the equations, plugging in the relevant numbers, and stating what you want to solve for (if you are not simply solving the equation).

Assume that markets are perfect and that Sequester Inc. has outstanding debt with a market value \$175 million and a book value of \$150 million and outstanding equity with a market value of \$300 million and a book value of \$200 million. Sequester's debt is risk-free and its equity has a beta of 1.25. The cost of capital for Sequester's debt is 2% and for Sequester's equity is 9.5%. Sequester is considering issuing \$50 million of additional stock and using the proceeds to repurchase \$50 million of debt.

- a. Calculate Sequester's weighted average cost of capital before it issues the additional equity.
- b. Without doing any calculations, how will the beta of Sequester's equity change after the debt repurchase/equity issue? Why is this the case?
- c. Calculate the beta of Sequester's equity after the issuance of additional equity.
- d. Without doing any calculations, how will the debt repurchase/equity issue affect firm's weighted average cost of capital? Why is this the case?
- e. Assume you own Sequester stock with a market value of \$300,000 and Sequester bonds with a market value of \$175,000. What changes would you need to make in your portfolio so that the risk you face will be unchanged after the firm's debt repurchase/equity issue?

Wall Street Journal Questions are on the back of this page Falls. Firm is promising less rex-free cash flows wow 90 to she bondholders. These cash flows now 90 d. No change: Reason: A firm's WACC does not change as change cup tal structure.

e. Sell \$50,000 of dost & buy \$50,000 of aguity

Reason: I currently own an Unlevered position in segrester with 6.1800 of the firm's outstanding seguester with 6.1800 of the change I need 0.180 of the firm's Securities in securities. of the GIM'S Securities = 350,000 => Bell = ,001 (32) Million) = 350,000 >) Debt = .001 (125 million) = 125,000