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Name & Time Key

Quiz: Given the following information, set up the calculations required to determine the beta of Spain's Leverage Inc.'s assets and debt. Plug in as many numbers as possible.

Information on:

-byears

Spain's Leverage stock: current market value = \$20,000, beta = 1.2

Spain's Leverage bonds: maturity = 6 years, maturity value = \$80,000, current market value = \$50,000

Returns: Spain's Leverage bonds = 8.1%, U.S. Treasuries that mature in 6 years = 3%

If we value Spain's Leverage stock as a call on the firm's assets: the price of a U.S. Treasury that matures for \$85,000 in 4 years = \$66,999, implied volatility = 28.1%, d1 = 0.4081, d2 = -0.2809

Note: Bonus WSJ Questions on back of page

$$A = 20,000 + 50,000 = 70,000$$

$$\Delta = \lambda 1/d_{1}) = \lambda (0.4081) = .65910$$

$$A = \frac{\beta E}{\lambda (1 + \frac{1}{E})} = \frac{1.2}{.65900(1 + \frac{50,000}{20,000})} + \frac{1}{12}$$

$$A = \frac{1.2}{15900(1 + \frac{50,000}{20,000})} + \frac{1}{12}$$

$$A = \frac{1.2}{15900(1 + \frac{50,000}{20,000})} + \frac{1}{12}$$

$$A = \frac{1.2}{12} + \frac{1.2}{120,000}$$

$$A = \frac{1.2}{12} + \frac{1.2}{12} + \frac{1.2}{120,000}$$

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