Quiz B: 4/11/12

Name & Time _ VPI/

Quiz: Suspend Campaign Company has a current stock price of \$50. For the next two years, Suspend's stock price will either rise by 8% per share or fall by 4% per share.

a. Set up the calculations needed to determine the value of a call today with a strike price of \$50 if the riskfree interest rate is 3% per year and is not expected to change.

b. Set up the calculations needed to determine how many bonds would you need to buy or sell a year from today if Suspend's stock price rises by 8% next year?

Note: Bonus WSJ Questions on back of page Su = 50 (1.08) = 54:5d=50 (.96) = 48 a 900 = 50 (1.08) = 5832; Sud = 50 (1.08) (.96) = 5du = 51.84; Sed = 40 (46) = 46.08 K=50 Cov=58.32 -50=832; Cud=51.84-50= 1.84; Cad=0 $\frac{t=1}{4 / 30} = \frac{88.32 - 1.84}{58.32 - 51.84} = 1; B = \frac{1.84 - (1)(51.84)}{1.03 + 1} = -48.5437$ +1 (Cv = 54(1) -48.5437 = 5.4563 +1 (SQ = 1.84-0 51.84-4608 = 0.31944; (Bd = 1.03+1 = -14.2913 +1 (Cd = 48(31944) -14.7913)= 1.0418 $\frac{t=0}{1.0418} = \frac{5.4563 - 1.0418}{5.4563 - 1.0418} = 0.7386 = \frac{1.0418 - (.7386)(48)}{1.031} = -33.2786$ H (C = 50 (.735) = 33.2736 = 3.511 1) Charge in Hade= 1 - ,7357 = 0.2643 et 14.272 => big .2643 short-sell kareas of bonds er 2) Boudes + do northing = -33-2536(1.03) = -34.2718

=> change . 14 couls = (48.543) - (-34.2718) = -14.2719

+2/=> \$5/kort sell 14.7719 9,4000