

## Corporate Finance LBS exam Cheat Sheet by cchuffart via cheatography.com/20095/cs/2944/

## **Present Value**

$$PV = \frac{C}{(r-g)} \left[ 1 - \left( \frac{1+g}{1+r} \right)^t \right]$$

## Example

M is 30 and salary next year \$40,000. M forecasts salary will increase by 5% per year until age 60 a) If the discount rate is 8 percent, what is the PV of these future salary payments? PV=  $40,000/(.08\text{-}0.5)~(1\text{-}(1+.05/1+.08)^{30})$  = 76,662.5~b) If M saves 5 percent each year and invests at 8%, saving by age 60? PV(salary) x 0.05 = \$38,033.13 Future value = \$38,033.13  $\times$  (1.08)  $_{30}$  =

382,714.30 c)M plans to spend in even amounts over the 20 y, how much spend each year?  $382,714.30 = C/.08((1-(1/1+.08)^220) => c = 38,980.73.$ 



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