

Finance Cheat Sheet by AziaCDixon via cheatography.com/56245/cs/14915/

Class 1

Goal: Maximize Firm Value

Terminal Value $Price^t + \Delta NWC - t^c (Price^t - t^c)$

BVt)

5 Principles of Investment Decisions

1)Decisions are based on cash flows, not accounting income.

2) Cash flows are based on opportunity costs.

3)The timing of cash flows is important

4)Cash flows are analyzed on an after-tax basis.

5) Financing costs are reflected in the project's required rate of return.

Class 2

Leverage (Debt/(Debt+Equity)

Cost of re=rfBe(rm-rf)

Equity

WACC weighted average of the cost of equity and the after-tax cost of

debt.

((E/V)(Re) + [((D/V)(1-T)(Rd)]

E = Market value of the company's equity

D = Market value of the company's debt

V = Total Market Value of the company (E + D)

Re = Cost of Equity

Rd = Cost of Debt

T= Tax Rate

Class 3

Value

EPS: (Net Income)/(Shares
Outstanding)

PE Ratio (Market Price Per

Share)/Earnings Per

Share)

Equity Market Share price x shares

outstanding

Enterprice Value equity market value + debt

- cash

EV/EBITDA EV=Enterprise Value

"Value-to-Earning

Price/Book= Book Value/Share

Class 3 (cont)

 Backwa
 A firm takes over a supplier. An oil

 rds
 transporter buying an oil exploration

 integra
 and production company.

tion

Forwar A firm takes over a customer. An oil dsinteg transporter buys a set of gasoline

ration stations.

Investment Growths

Organic (Slow growth) - growth is when a firm grows or develops a new product or capability in-house (less risky, less expensive)

Inorganic (M&A, Fast growth)

Acquisition: buying part of a company

Merger: entire target

(Fast growing, reduces competition)

Class 4

Beta Unleveled:

APV 1)Vunleveled 2)Calulate PV(SideEffects) 3)TV

TRUE. When leverage increases beta .

TRUE. When a firm has no debt the unlevered cost of equity equals the levered cost of equity.

FALSE. When leverage changes sharply, using the same WACC from the previous period is still appropriate.

TRUE. Leverage represents a type of risk because it affects potential returns on investment

Class 5

Capital is the process of choosing how to Structure finance a firm's investments.

Pecking of raising capital predicts managers

Order will finance projects with retained
Theory earnings first, debt, then equity

Class 5 (cont)

Lifecycle Theory predicts a firm's financing changes as it makes the transition from a start-up firm to a mature firm to a declining firm. Start-up firms use debt sparingly, then as cash flows from investments become more predictable, the growing firm begins to use more debt, then leverage peaks for the mature firm right before it declines

Modigliani Miller predicts capital structure is irrelevant for firm value in a world with no taxes, no bankruptcy, no financing constraints (i.e., all firms borrow at same rate), no transaction costs, and no market frictions (i.e., efficient prices and no agency costs)

Trade-off Theory:

VL = VU + PV (tax shields) – PV (bankruptcy costs) – PV (risk-shifting) – PV (managerial risk aversion) + PV (disciplinary debt)

actual capital structure > optimal capital structure.

=overlevered= You want to decrease your debt levels.

Financing an investment with debt *Increase leverage*

Paying off debt with retained earnings Decrease leverage

Increasing your regular dividend *Increase leverage*

Cancelling a share repurchase plan *Decrease leverage*

Selling some of your assets and using the cash to pay down *Increase leverage*



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Class 6

 $VAT_{=}$

Gain^T=

GainS=

VAT=the post-merger value of combined firm (acquirer + target)

VA=the pre-merger value of acquirer

VT= the pre-merger value of target (note: should be the trading price

before any merger speculation caused the price to jump).

S=are estimated post-merger synergies

C= any cash paid by acquirer to target

TP= take over premium

PT= the price paid for the target

Class 9

Dividends a dividend is a cash distribution to shareholders that occurs

at a regular frequency (e.g., quarterly, annual, etc...)

Repurcha A repurchase of stock is a distribution in the form of the ses company buying back its stock from shareholders.

Special large one-time dividend, in case for next class, a preferred payout stock with fixed dividends, etc...

In reality, excess cash is bad because it works against the goal of

corporate finance:
1)It lowers return on assets (i.e., ROA or profitability).

2)It increases the cost of capital (why? cash is part of equity so will impact the WACC calculation).

3)It can create an overly confident, undisciplined management team.

If actual value > intrinsic value *don't invest*If actual value < intrinsic value *invest*



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