

115.114 Finance Fundamentals Cheat Sheet by MJ McGiver via cheatography.com/213568/cs/46481/

Chpt4. TVM-Single Payments Time Individuals prefer to receive a dollar today to receiving that same dollar promised in a year's time. Value of money Interest The cost of funds to a borrower or part of the return for a lender or investor Mortgage recover money by selling property bank loan with maturity due date Term Loan

4.1 Simple Interest & Future Value	
Future	amount received later, cash value of investment at
Value	future date: FV=P(1+rn)
Simple Interest	Interest calculated on the original amount $I=(P)(r)$
Money Markets	short-term debt markets: companies can borrow/ invest in the short-term.
Formula	FV = P(1 + rn)

4.2 Simple Interest & Present Value

Present Value	amount today: needed cash today, to yield a particular value at future.
Discounts	to find the present value of future amount. inverse for compounding interest.
Formula	PV = FV/(1+rn)

Working out/ Calculating how much the money we expect to receive in the future is worth today.

4.3 Compound Interest & FV	
Compounded Interest	Interest is stacking. It is then added to the principal
Compou- nding	Process of finding future amounts where interest is paid on interest already earned.
Opportunity Cost	best market yield achieve through alternative course of action: Market Yield is often benchmarked for opportunity costs
Formula	$FV = PV (1+r)^n$
Working out/ calculating future value through interest for each period	

Working out/ calculating future value through interest for each period	
(plus any interest), then added to the principal.	

4.4 PV of a single payment	
Discou- nting	The process of finding current amounts by the process of present value.
Formula	$PV = FV / (1+r)^n$
Formula2	$PV = FV \times (1+r)^{-n}$

4.5 Compounding frequency	
Coupon	Interest paid, based on a percentage of a bond's face value.
Zero- coupon Bond	single-payment: no interest payment during its lifetime since interest is included with the repayment of principal at maturity.
Maturity	Deadline: The date when security will be payed.
Formula	$FV = PV \times (1 + r/m)^{m \times n}$
Formula2	$PV = FV / (1 + r/m)^{m \times n}$
When compounding period per year is increased by semi-annually,	

quarterly, monthly or daily.

PV formula can be used to calculate the current value of a zero-coupon bond.

4.6 Continuous compounding/ discounting

Formula	$FV = PV (PV \times e^{r \times n})$
or	FV = PVe ^{rn}

When compounding frequency is increased to a very large number of (infinity).

Where e is constant, e = 2.718

4.7 Nominal & Effective Interest Rates	
Nominal Rate	contractual rate, ignores compounding. includes inflation: quoted rate
Effective Rate	actual rate, accounts compounding. includes adjust- ments: adjustments to nominal rate for the frequency of compounding.
Annual Percentage Rate (APR)	contractual rate, ignores compounding. when short- term rates are annualized
Rate of Return	rate of profit/ loss from investment
Formula	$r_e = (1 + r/m)^m - 1$



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4.8 Unknown Interest Rate

Formula $r = (FV/PV)^{1/n} - 1$

FV and PV is given, but find interest rate.



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