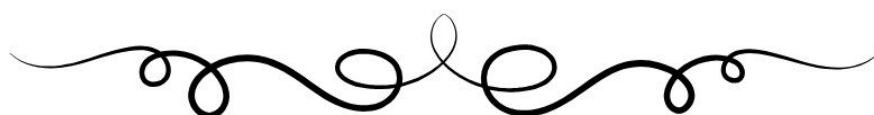




# Task

**You are private equity firm looking to potentially buyout an insurance company. In the last 12 months, the company has generated \$2BN in sales \$900MN in COGS, \$500MN in OpEx, \$100MN in D&A, \$200MN in NWC and \$140MN in CapEx. For the next 5 years, assumes a 21% tax rate and assumes all margins remains flat. Your firm also believes it can enter and exit at 10.0x EBITDA multiple at the end of year 5. The company has existing net debt of \$1BN. Fees and expenses are estimated to amount to \$100MN, and there will be 3 tranches of debt : \$200MN from revolver (7.5% interest), \$2.5BN from bank loan (9.5% interest) and \$ 1.5BN from senior notes (12.5% interest) : Calculate the firm's IRR**



Assumptions									
Financials		Entry		Capital Structure		Amount	Interest		
LTM Financials		LTM EBITDA		Revolver		200	7.5%		
Revenue	2,000	EBITDA Multiple		Bank Loan		2,500	9.5%		
Cogs	900	Enterprise Value		Senior Notes		1,500	12.5%		
OpEx	500	Existing Net Debt							
D&A	100	Equity Value							
NWC	200								
CapEx	140	Fees & Expenses							
Operating Assumptions		Exit		For Reference					
Revenue Growth	10.0%	Exit Multiple		IRR		22%			
Tax Rate	21.0%			MOIC		2.7x			
Sources & Uses									
Sources				Uses					
	Amount	xEBITDA	%Capital		Amount	xEBITDA	%Capital		
Revolver	200	0.3x	3.3%	Debt Refinancing	1,000	1.7x	16.4%		
Bank Loan	2,500	4.2x	41.0%	Equity Payment	5,000	8.3x	82.0%		
Senior Notes	1,500	2.5x	24.6%						
Total	4,200	7.0x	68.9%	Fees & Expenses	100	0.2x	1.6%		
Sponsor Equity	1,900	3.2x	31.1%						
Total Sources	6,100	10.2x	100%	Total Uses	6,100	10.2x	100%		
Financials									
Operating Model				Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
Revenue				2,000	2,200	2,420	2,662	2,928	3,221
% Growth					10.0%	10.0%	10.0%	10.0%	10.0%
COGS				900	990	1,089	1,198	1,318	1,449
% Sales				45.0%	45.0%	45.0%	45.0%	45.0%	45.0%
Gross Profit				1,100	1,210	1,331	1,464	1,611	1,772
% Sales				55.0%	55.0%	55.0%	55.0%	55.0%	55.0%
OpEx				500	550	605	666	732	805
% Sales				25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
EBITDA				600	660	726	799	878	966
% Sales				30.0%	30.0%	30.0%	30.0%	30.0%	30.0%
D&A				100	110	121	133	146	161
% Sales				5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
EBIT				500	550	605	666	732	805
% Sales				25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
Interest					440	438	434	426	393
EBT					110	167	232	306	413
% Sales					5.0%	6.9%	8.7%	10.5%	12.8%
Taxes					23	35	49	64	87
% Tax Rate					21.0%	21.0%	21.0%	21.0%	21.0%
Net Income					87	132	183	242	326
% Sales					4.0%	5.4%	6.9%	8.3%	10.1%
Cash flow Items				Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
D&A				100	110	121	133	146	161
% Sales				5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Net Working Capital				200	220	242	266	293	322
% Sales				10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
Change in Net Working Capital					20	22	24	27	29
CapEx				140	154	169	186	205	225
% Sales				7.0%	7.0%	7.0%	7.0%	7.0%	7.0%
Levered Cash Flow				Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
Net Income					87	132	183	242	326
D & A					110	121	133	146	161
CapEx					154	169	186	205	225
Change in NWC					20	22	24	27	29
Levered Cash Flow					23	61	106	157	232
Debt Schedule									
				Year 0	Year 1	Year 2	Year 3	Year 4	Year 5
Revolver									
Beginning Balance					200	177	116	10	--
Interest					15	13	9	1	--
Paydown					23	61	106	10	--
Closing Balance				200	177	116	10	--	--
Bank Debt									
Beginning Balance					2,500	2,500	2,500	2,500	2,353
Interest					238	238	238	238	224
Paydown					--	--	--	147	232
Closing Balance				2,500	2,500	2,500	2,500	2,353	2,121
Senior Notes									
Beginning Balance					1,500	1,500	1,500	1,500	1,353
Interest					188	188	188	188	169
Paydown					--	--	--	147	232
Closing Balance				1,500	1,500	1,500	1,500	1,353	1,121
Total Debt									
Beginning Balance					4,200	4,177	4,116	4,010	3,707
Interest					440	438	434	426	393
Paydown					23	61	106	303	464
Closing Balance				4,200	4,663	4,677	4,655	4,739	4,564
IRR									
EBITDA at Exit									966
Exit Multiple									10.0x
Enterprise Value									9,663
Net Debt									4,564
Sponsor Equity Value									5,099
Sponsor Equity at Entry									1,900
MOIC									2.7x
IRR									22%

# CONCLUSION : GO WITH THE DEAL

## 1. RETURNS CLEAR THE PE HURDLE

IRR : 22% ; MOIC = 2.7x

THIS COMFORTABLY BEATS TYPICAL TARGET OF MOST PE FIRM WHICH IS

IRR OF 18 TO 20 %

AND IT IS ACHIEVED WITHOUT MULTIPLE EXPANSION, WHICH MAKES  
RETURNS QUALITY STRINGER.

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## 2. CONSERVATIVE ASSUMPTION = CREDIBLE MODEL

FLAT MARGINS NO HEROICS

ENTRY AND EXIT AT SAME 10.0x EBITDA

NO AGGRESSIVE REVENUE GROWTH BAKED IN

RETURNS ARE DRIVEN BY CASH GENERATION + DELEVERAGING NOT OPTIMISM.

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## 3. CASH FLOW CAN HANDLE THE LEVERAGE

EBITDA STAYS STRONG AND PREDICTABLE

INTEREST ACROSS ALL TRANCHES IS SERVICED EVERY YEAR

DEBT REDUCES MEANINGFULLY BY EXIT

LOW RISK OF COVENANT STRESS OR LIQUIDITY CRUNCH

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## 4. BUSINESS PROFILE FITS LEVERAGE

INSURANCE BUSINESSES ARE :

NON CYNICAL

STICKY (LONG TERM CUSTOMERS)

PREDICTABLE IN CASH FLOWS

EXACTLY THE KIND OF BUSINESS PE FIRM WOULD LIKE TO TAKE  
OVER

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