



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			
LTM Financials			LTM EBITDA	600	Revolver	200 7.5%		
Revenue	2,000		EBITDA Multiple	10.0x	Bank Loan	2,500 9.5%		
Cogs	900		Enterprise Value	6,000	Senior Notes	1,500 12.5%		
OpEx	500		Existing Net Debt	1,000				
D&A	100		Equity Value	5,000				
NWC	200		Fees & Expenses	100				
CapEx	140							
Operating Assumptions								
Revenue Growth	10.0%		Exit		For Reference			
Tax Rate	21.0%		Exit Multiple	10.0x	IRR	22%		
					MOIC	2.7x		
Sources & Uses								
Sources			Uses					
					Amount			
Revolver	200	0.3x	xEBITDA	3.3%	Amount			
Bank Loan	2,500	4.2x	% Capital		1,000	1.7x		
Senior Notes	1,500	2.5x			5,000	8.3x		
Total	4,200	7.0x	68.9%		Fees & Expenses			
Sponsor Equity	1,900	3.2x	31.1%			100 0.2x 1.6%		
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%	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								
Sponsor Equity at Entry						5,099		
MOIC								
IRR						2.7x		
						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.

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.

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

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
