

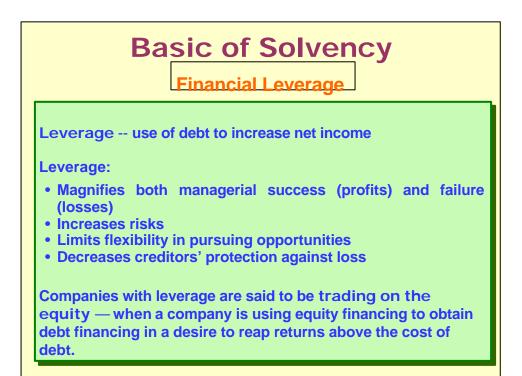
## **Basic of Solvency**

Motivation for Debt

From a shareholder's perspective, debt financing is *less* expensive than equity financing because:

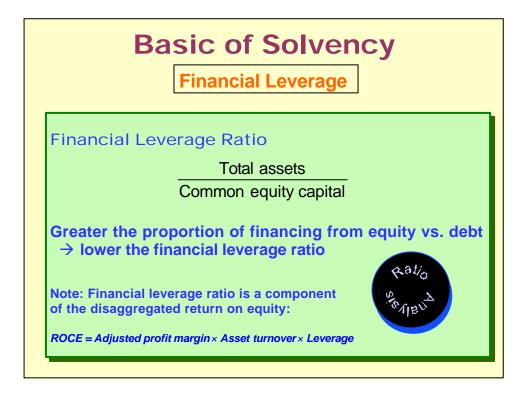
1.<u>Financial Leverage</u>--Interest on most debt is fixed, and provided interest is less than the return earned from debt financing, the excess return goes to equity investors

2.<u>Tax Deductibility of Interest</u>--Interest is a tax-deductible expense whereas dividends are not



		Fina	incia	l Lev	erage	e - III	ustra	ation		
Frading on	the Equity— Financing Sou		r Different E	arnings Leve	els (\$ thousa	nds)		Return on		
	Assets	Debt		ncome before Interest and Taxes	10 Percent Debt Interest	Taxes*	Net N Income	let Income + [Interest (1 - Tax Rate)]	Assets†	Equity‡
	\$1,000,000 1,000,000	\$400,000	\$600,000 1,000,000	\$200,000 200,000	\$40,000	\$64,000 80,000	\$96,000 120,000	\$120,000 120,000	12.0% 12.0	16.0% 12.0
Year 2: Risky, Inc. Safety, Inc.	1,000,000 1,000,000	400,000	600,000 1,000,000	100,000 100,000	40,000	24,000 40,000	36,000 60,000	60,000 60,000	6.0 6.0	6.0 6.0
	1,000,000 1,000,000	400,000	600,000 1,000,000	50,000 50,000	40,000	4,000 20,000	6,000 30,000	30,000 30,000	3.0 3.0	1.0 3.0

Financial Leverage- I Deductibility of Consider two companies' results for Ye	Inte	<b>-</b>	<b>(</b>
consider two companies results for re	ai 2.		
Year 2 Financials		Risky, Inc. Sa	fety, Inc.
Income before interest and taxes	\$	100,000 \$	<u>fety, Inc.</u> 100,000
	\$ \$		
Income before interest and taxes Interest (10% of \$400,000) Income before taxes	•	100,000 \$ 40,000 60,000 \$	100,000



Basic of Solvency djustments for Capital Structure - Liabilities					
<b>Deferred Income Taxes</b> — Is it a liability, equity, or some of both?	3&6				
<b>Operating Leases</b> capitalize non- cancelable operating leases?	3				
Off-Balance-Sheet Financing	3				
Convertible Debt	3				
Preferred Stock	3 Balance				

