#### Choosing Between the Multiples

- As presented in this section, there are dozens of multiples that can be potentially used to value an individual firm.
- In addition, relative valuation can be relative to a sector (or comparable firms) or to the entire market (using the regressions, for instance)
- Since there can be only one final estimate of value, there are three choices at this stage:
  - Use a simple average of the valuations obtained using a number of different multiples
  - Use a weighted average of the valuations obtained using a nmber of different multiples
  - Choose one of the multiples and base your valuation on that multiple

### Picking one Multiple

- This is usually the best way to approach this issue. While a range of values can be obtained from a number of multiples, the "best estimate" value is obtained using one multiple.
- □ The multiple that is used can be chosen in one of two ways:
  - Use the multiple that best fits your objective. Thus, if you want the company to be undervalued, you pick the multiple that yields the highest value.
  - Use the multiple that has the highest R-squared in the sector when regressed against fundamentals. Thus, if you have tried PE, PBV, PS, etc. and run regressions of these multiples against fundamentals, use the multiple that works best at explaining differences across firms in that sector.
  - Use the multiple that seems to make the most sense for that sector, given how value is measured and created.

#### A More Intuitive Approach

- Managers in every sector tend to focus on specific variables when analyzing strategy and performance. The multiple used will generally reflect this focus. Consider three examples.
  - In retailing: The focus is usually on same store sales (turnover) and profit margins. Not surprisingly, the revenue multiple is most common in this sector.
  - In financial services: The emphasis is usually on return on equity. Book Equity is often viewed as a scarce resource, since capital ratios are based upon it. Price to book ratios dominate.
  - In technology: Growth is usually the dominant theme. PEG ratios were invented in this sector.

### Conventional usage...

Sector	Multiple Used	Rationale
Cyclical Manufacturing	PE, Relative PE	Often with normalized earnings
Growth firms	PEG ratio	Big differences in growth rates
Young growth firms w/ losses	Revenue Multiples	What choice do you have?
Infrastructure	EV/EBITDA	Early losses, big DA
REIT	P/CFE (where CFE = Net income + Depreciation)	Big depreciation charges on real estate
Financial Services	Price/ Book equity	Marked to market?
Retailing	Revenue multiples	Margins equalize sooner or later

#### Relative versus Intrinsic Value

104

- If you do intrinsic value right, you will bring in a company's risk, cash flow and growth characteristics into the inputs, preserve internal consistency and derive intrinsic value. If you do relative value right, you will find the right set of comparables, control well for differences in risk, cash flow and growth characteristics. Assume you value the same company doing both DCF and relative valuation correctly, should you get the same value?
  - Yes
  - No
- If not, how would you explain the difference?
- If the numbers are different, which value would you use?
  - Intrinsic value
  - Relative value
  - A composite of the two values
  - The higher of the two values
  - The lower of the two values
  - Depends on what my valuation "mission" is.

## Reviewing: The Four Steps to Understanding Multiples

- Define the multiple
  - Check for consistency
  - Make sure that they are estimated uniformly
- Describe the multiple
  - Multiples have skewed distributions: The averages are seldom good indicators of typical multiples
  - Check for bias, if the multiple cannot be estimated
- Analyze the multiple
  - Identify the companion variable that drives the multiple
  - Examine the nature of the relationship
- Apply the multiple

# A DETOUR: ASSET BASED VALUATION

Value assets, not cash flows?

#### What is asset based valuation?

- In intrinsic valuation, you value a business based upon the cash flows you expect that business to generate over time.
- In relative valuation, you value a business based upon how similar businesses are priced.
- In asset based valuation, you value a business by valuing its individual assets. These individual assets can be tangible or intangible.

### Why would you do asset based valuation?

- <u>Liquidation</u>: If you are liquidating a business by selling its assets piece meal, rather than as a composite business, you would like to estimate what you will get from each asset or asset class individually.
- Accounting mission: As both US and international accounting standards have turned to "fair value" accounting, accountants have been called upon to redo balance sheet to reflect the assets at their fair rather than book value.
- Sum of the parts: If a business is made up of individual divisions or assets, you may want to value these parts individually for one of two groups:
  - Potential acquirers may want to do this, as a precursor to restructuring the business.
  - Investors may be interested because a business that is selling for less than the sum of its parts may be "cheap".

#### How do you do asset based valuation?

- Intrinsic value: Estimate the expected cash flows on each asset or asset class, discount back at a risk adjusted discount rate and arrive at an intrinsic value for each asset.
- Relative value: Look for similar assets that have sold in the recent past and estimate a value for each asset in the business.
- Accounting value: You could use the book value of the asset as a proxy for the estimated value of the asset.

#### When is asset-based valuation easiest to do?

- Separable assets: If a company is a collection of separable assets (a set of real estate holdings, a holding company of different independent businesses), asset-based valuation is easier to do. If the assets are interrelated or difficult to separate, asset-based valuation becomes problematic. Thus, while real estate or a long term licensing/franchising contract may be easily valued, brand name (which cuts across assets) is more difficult to value separately.
- Stand alone earnings/ cash flows: An asset is much simpler to value if you can trace its earnings/cash flows to it. It is much more difficult to value when the business generates earnings, but the role of individual assets in generating these earnings cannot be isolated.
- Active market for similar assets: If you plan to do a relative valuation, it is easier if you can find an active market for "similar" assets which you can draw on for transactions prices.

#### I. Liquidation Valuation

- In liquidation valuation, you are trying to assess how much you would get from selling the assets of the business today, rather than the business as a going concern.
- Consequently, it makes more sense to price those assets (i.e., do relative valuation) than it is to value them (do intrinsic valuation). For assets that are separable and traded (example: real estate), pricing is easy to do. For assets that are not, you often see book value used either as a proxy for liquidation value or as a basis for estimating liquidation value.
- To the extent that the liquidation is urgent, you may attach a discount to the estimated value.

## II. Accounting Valuation: Glimmers from FAS157

- The ubiquitous "market participant": Through FAS 157, accountants are asked to attach values to assets/liabilities that market participants would have been willing to pay/ receive.
- Tilt towards relative value: "The definition focuses on the price that would be received to sell the asset or paid to transfer the liability (an exit price), not the price that would be paid to acquire the asset or received to assume the liability (an entry price)." The hierarchy puts "market prices", if available for an asset, at the top with intrinsic value being accepted only if market prices are not accessible.
- Split mission: While accounting fair value is titled towards relative valuation, accountants are also required to back their relative valuations with intrinsic valuations. Often, this leads to reverse engineering, where accountants arrive at values first and develop valuations later.

### III. Sum of the parts valuation

- You can value a company in pieces, using either relative or intrinsic valuation. Which one you use will depend on who you are and your motives for doing the sum of the parts valuation.
- If you are long term, passive investor in the company, your intent may be to find market mistakes that you hope will get corrected over time. If that is the case, you should do an intrinsic valuation of the individual assets.
- If you are an activist investor that plans to acquire the company or push for change, you should be more focused on relative valuation, since your intent is to get the company to split up and gain the increase in value.

#### Let's try this United Technologies: Raw Data - 2009

Division	Business	Revenues	EBITDA	Pre-tax Operating Income	Capital Expenditures	Depreciation	Total Assets
Division		Revenues		Писте	Experianties	Depreciation	Assets
Carrier	Refrigeration systems	\$14,944	\$1,510	\$1,316	\$191	\$194	\$10,810
Pratt &							
Whitney	Defense	\$12,965	\$2,490	\$2,122	\$412	\$368	\$9,650
Otis	Construction	\$12,949	\$2,680	\$2,477	\$150	\$203	\$7,731
UTC Fire &							
Security	Security	\$6,462	\$780	\$542	\$95	\$238	\$10,022
Hamilton							
Sundstrand	Manufacturing	\$6,207	\$1,277	\$1,099	\$141	\$178	\$8,648
Sikorsky	Aircraft	\$5,368	\$540	\$478	\$165	\$62	\$3,985

The company also had corporate expenses, unallocated to the divisions of \$408 million in the most recent year.

## United Technologies: Relative Valuation Median Multiples

Division	Business	EBITDA	EV/EBITDA for sector	Value of Business
Carrier	Refrigeration systems	\$1,510	5.25	\$7,928
Pratt & Whitney	Defense	\$2,490	8.00	\$19,920
Otis	Construction	\$2,680	6.00	\$16,080
UTC Fire & Security	Security	\$780	7.50	\$5,850
Hamilton Sundstrand	Industrial Products	\$1,277	5.50	\$7,024
Sikorsky	Aircraft	\$540	9.00	\$4,860
Sum of the parts value for				
business =				\$61,661

## United Technologies: Relative Valuation Plus Scaling variable & Choice of Multiples

Division	Business	Revenues	EBITDA	Operating Income	Capital Invested
Carrier	Refrigeration systems	\$14,944	\$1,510	\$1,316	\$6,014
Pratt & Whitney	Defense	\$12,965	\$2,490	\$2,122	\$5,369
Otis	Construction	\$12,949	\$2,680	\$2,477	\$4,301
UTC Fire & Security	Security	\$6,462	\$780	\$542	\$5,575
Hamilton Sundstrand	Industrial Products	\$6,207	\$1,277	\$1,099	\$4,811
Sikorsky	Aircraft	\$5,368	\$540	\$478	\$2,217
Total		\$58,895	\$9,277	\$8,034	\$28,287

Business	Best Multiple	Regression	$\mathbb{R}^2$
Refrigeration systems	EV/EBITDA	EV/EBITDA = 5.35 - 3.55 Tax Rate + 14.17 ROC	42%
Defense	EV/Revenues	EV/Revenues = 0.85 + 7.32 Pre-tax Operating Margin	47%
Construction	EV/EBITDA	EV/EBITDA = 3.17 - 2.87  Tax Rate + 14.66  ROC	36%
Security	EV/Capital	EV/Capital = 0.55 + 8.22 ROC	55%
Industrial Products	EV/Revenues	EV/Revenues = 0.51 + 6.13 Pre-tax Operating Margin	48%
Aircraft	EV/Capital	EV/Capital = 0.65 + 6.98 ROC	40%

#### United Technologies: Relative Valuation Sum of the Parts value

		Current value for					
	Scaling	scaling		Operating	Tax		Estimated
Division	Variable	variable	ROC	Margin	Rate	Predicted Multiple	Value
						5.35 – 3.55 (.38) + 14.17	
Carrier	EBITDA	\$1,510	13.57%	8.81%	38%	(.1357) =5.92	\$8,944.47
Pratt &							
Whitney	Revenues	\$12,965	24.51%	16.37%	38%	0.85 + 7.32 (.1637) = 2.05	\$26,553.29
						3.17 – 2.87 (.38)+14.66	
Otis	EBITDA	\$2,680	35.71%	19.13%	38%	(.3571) = 7.31	\$19,601.70
UTC Fire &							
Security	Capital	\$5,575	6.03%	8.39%	38%	0.55 + 8.22 (.0603) = 1.05	\$5,828.76
Hamilton							
Sundstrand	Revenues	\$6,207	14.16%	17.71%	38%	0.51 + 6.13 (.1771) = 1.59	\$9,902.44
Sikorsky	Capital	\$2,217	13.37%	8.90%	38%	0.65 + 6.98 (.1337) = 1.58	\$3,509.61
		Sum of the pa	arts value	for operating	g assets	J =	\$74,230.37

# United Technologies: DCF parts valuation Cost of capital, by business

	Unlevered	Debt/Equity	Levered	Cost of	After-tax cost	Debt to	Cost of
Division	Beta	Ratio	beta	equity	of debt	Capital	capital
Carrier	0.83	30.44%	0.97	9.32%	2.95%	23.33%	7.84%
Pratt &							
Whitney	0.81	30.44%	0.95	9.17%	2.95%	23.33%	7.72%
Otis	1.19	30.44%	1.39	12.07%	2.95%	23.33%	9.94%
UTC Fire &							
Security	0.65	30.44%	0.76	7.95%	2.95%	23.33%	6.78%
Hamilton							
Sundstrand	1.04	30.44%	1.22	10.93%	2.95%	23.33%	9.06%
Sikorsky	1.17	30.44%	1.37	11.92%	2.95%	23.33%	9.82%

# United Technologies: DCF valuation Fundamentals, by business

	Total	Capital		Allocated	Operating income	Return on	Reinvestment
Division	Assets	Invested	Cap Ex	Reinvestment	after taxes	capital	Rate
Carrier	\$10,810	\$6,014	\$191	\$353	\$816	13.57%	43.28%
Pratt &							
Whitney	\$9,650	\$5,369	\$412	\$762	\$1,316	24.51%	57.90%
Otis	\$7,731	\$4,301	\$150	\$277	\$1,536	35.71%	18.06%
UTC Fire							
& Security	\$10,022	\$5,575	\$95	\$176	\$336	6.03%	52.27%
Hamilton							
Sundstrand	\$8,648	\$4,811	\$141	\$261	\$681	14.16%	38.26%
Sikorsky	\$3,985	\$2,217	\$165	\$305	\$296	13.37%	102.95%

## United Technologies, DCF valuation Growth Choices

	Cost of	Return on	Reinvestment	Expected	Length of growth	Stable	Stable
Division	capital	capital	Rate	growth	period	growth rate	ROC
Carrier	7.84%	13.57%	43.28%	5.87%	5	3%	7.84%
Pratt &							
Whitney	7.72%	24.51%	57.90%	14.19%	5	3%	12.00%
Otis	9.94%	35.71%	18.06%	6.45%	5	3%	14.00%
UTC Fire							
& Security	6.78%	6.03%	52.27%	3.15%	0	3%	6.78%
Hamilton							
Sundstrand	9.06%	14.16%	38.26%	5.42%	5	3%	9.06%
Sikorsky	9.82%	13.37%	102.95%	13.76%	5	3%	9.82%

# United Technologies, DCF valuation Values of the parts

	Cost of	PV of	PV of Terminal	Value of Operating
Business	capital	FCFF	Value	Assets
Carrier	7.84%	\$2,190	\$9,498	\$11,688
Pratt & Whitney	7.72%	\$3,310	\$27,989	\$31,299
Otis	9.94%	\$5,717	\$14,798	\$20,515
UTC Fire &				
Security	6.78%	\$0	\$4,953	\$4,953
Hamilton				
Sundstrand	9.06%	\$1,902	\$6,343	\$8,245
Sikorsky	9.82%	-\$49	\$3,598	\$3,550
Sum				\$80,250

#### United Technologies, DCF valuation Sum of the Parts

Value of the parts

= \$80,250

Value of corporate expenses

$$= \frac{\text{Corporate Expenses}_{\text{Current}}(1-t)(1+g)}{(\text{Cost of capital}_{\text{Company}} - g)} = \frac{408(1-.38)(1.03)}{(.0868-.03)} + 4,587$$

Value of operating assets (sum of parts DCF) = \$75,663

Value of operating assets (sum of parts RV) = \$74,230

Value of operating assets (company DCF) = \$71,410

Enterprise value (based on market prices) = \$52,261

### PRIVATE COMPANY VALUATION

Aswath Damodaran

#### Process of Valuing Private Companies

- The process of valuing private companies is not different from the process of valuing public companies. You estimate cash flows, attach a discount rate based upon the riskiness of the cash flows and compute a present value. As with public companies, you can either value
  - The entire business, by discounting cash flows to the firm at the cost of capital.
  - The equity in the business, by discounting cashflows to equity at the cost of equity.
- When valuing private companies, you face two standard problems:
  - There is not market value for either debt or equity
  - The financial statements for private firms are likely to go back fewer years, have less detail and have more holes in them.

#### 1. No Market Value?

- Market values as inputs: Since neither the debt nor equity of a private business is traded, any inputs that require them cannot be estimated.
  - 1. Debt ratios for going from unlevered to levered betas and for computing cost of capital.
  - 2. Market prices to compute the value of options and warrants granted to employees.
- Market value as output: When valuing publicly traded firms, the market value operates as a measure of reasonableness. In private company valuation, the value stands alone.
- Market price based risk measures, such as beta and bond ratings, will not be available for private businesses.

#### 2. Cash Flow Estimation Issues

- Shorter history: Private firms often have been around for much shorter time periods than most publicly traded firms. There is therefore less historical information available on them.
- Different Accounting Standards: The accounting statements for private firms are often based upon different accounting standards than public firms, which operate under much tighter constraints on what to report and when to report.
- Intermingling of personal and business expenses: In the case of private firms, some personal expenses may be reported as business expenses.
- Separating "Salaries" from "Dividends": It is difficult to tell where salaries end and dividends begin in a private firm, since they both end up with the owner.

#### Private Company Valuation: Motive matters

- You can value a private company for
  - 'Show' valuations
    - Curiosity: How much is my business really worth?
    - Legal purposes: Estate tax and divorce court
  - Transaction valuations
    - Sale or prospective sale to another individual or private entity.
    - Sale of one partner's interest to another
    - Sale to a publicly traded firm
  - As prelude to setting the offering price in an initial public offering
- You can value a division or divisions of a publicly traded firm
  - As prelude to a spin off
  - For sale to another entity
  - To do a sum-of-the-parts valuation to determine whether a firm will be worth more broken up or if it is being efficiently run.

## Private company valuations: Four broad scenarios

- Private to private transactions: You can value a private business for sale by one individual to another.
- Private to public transactions: You can value a private firm for sale to a publicly traded firm.
- Private to IPO: You can value a private firm for an initial public offering.
- Private to VC to Public: You can value a private firm that is expected to raise venture capital along the way on its path to going public.

#### I. Private to Private transaction

- In private to private transactions, a private business is sold by one individual to another. There are three key issues that we need to confront in such transactions:
  - □ Neither the buyer nor the seller is diversified. Consequently, risk and return models that focus on just the risk that cannot be diversified away will seriously under estimate the discount rates.
  - ☐ The investment is illiquid. Consequently, the buyer of the business will have to factor in an "illiquidity discount" to estimate the value of the business.
  - Key person value: There may be a significant personal component to the value. In other words, the revenues and operating profit of the business reflect not just the potential of the business but the presence of the current owner.

#### An example: Valuing a restaurant

- Assume that you have been asked to value a upscale French restaurant for sale by the owner (who also happens to be the chef). Both the restaurant and the chef are well regarded, and business has been good for the last 3 years.
- The potential buyer is a former investment banker, who tired of the rat race, has decide to cash out all of his savings and use the entire amount to invest in the restaurant.
- You have access to the financial statements for the last 3 years for the restaurant. In the most recent year, the restaurant reported \$ 1.2 million in revenues and \$ 400,000 in pre-tax operating profit. While the firm has no conventional debt outstanding, it has a lease commitment of \$120,000 each year for the next 12 years.

#### Past income statements...

	3 years	2 years		
	ago	ago	Last year	
Revenues	\$800	\$1,100	\$1,200	Operating at full capacity
- Operating lease				
expense	\$120	\$120	\$120	(12 years left on the lease)
				(Owner/chef does not draw
- Wages	\$180	\$200	\$200	salary)
- Material	\$200	\$275	\$300	(25% of revenues)
- Other operating				
expenses	\$120	\$165	\$180	(15% of revenues)
Operating income	\$180	\$340	\$400	
- Taxes	\$72	\$136	\$160	(40% tax rate)
Net Income	\$108	\$204	\$240	

All numbers are in thousands

### Step 1: Estimating discount rates

- Conventional risk and return models in finance are built on the presumption that the marginal investors in the company are diversified and that they therefore care only about the risk that cannot be diversified. That risk is measured with a beta or betas, usually estimated by looking at past prices or returns.
- In this valuation, both assumptions are likely to be violated:
  - As a private business, this restaurant has no market prices or returns to use in estimation.
  - The buyer is not diversified. In fact, he will have his entire wealth tied up in the restaurant after the purchase.

### No market price, no problem... Use bottom-up betas to get the unlevered beta

- The average unlevered beta across 75 publicly traded restaurants in the US is 0.86.
- A caveat: Most of the publicly traded restaurants on this list are fast-food chains (McDonald's, Burger King) or mass restaurants (Applebee's, TGIF...) There is an argument to be made that the beta for an upscale restaurant is more likely to be reflect highend specialty retailers than it is restaurants. The unlevered beta for 45 high-end retailers is 1.18.

#### **Private Owner versus Publicly Traded Company Perceptions of Risk in an Investment**

Total Beta measures all risk = Market Beta/ (Portion of the total risk that is market risk)

Private owner of business with 100% of your weatlth invested in the business

Is exposed to all the risk in the firm



Demands a cost of equity that reflects this risk

80 units of firm specific risk

Market Beta measures just market risk

Eliminates firmspecific risk in portfolio

20 units of market risk

Publicly traded company with investors who are diversified

Demands a cost of equity that reflects only market risk

#### Estimating a total beta

- To get from the market beta to the total beta, we need a measure of how much of the risk in the firm comes from the market and how much is firm-specific.
- Looking at the regressions of publicly traded firms that yield the bottom-up beta should provide an answer.
  - The average R-squared across the high-end retailer regressions is 25%.
  - Since betas are based on standard deviations (rather than variances), we will take the correlation coefficient (the square root of the R-squared) as our measure of the proportion of the risk that is market risk.
- Total Unlevered Beta
  - = Market Beta/ Correlation with the market
  - = 1.18 / 0.5 = 2.36

## The final step in the beta computation: Estimate a Debt to equity ratio and cost of equity

- With publicly traded firms, we re-lever the beta using the market D/E ratio for the firm. With private firms, this option is not feasible. We have two alternatives:
  - Assume that the debt to equity ratio for the firm is similar to the average market debt to equity ratio for publicly traded firms in the sector.
  - Use your estimates of the value of debt and equity as the weights in the computation. (There will be a circular reasoning problem: you need the cost of capital to get the values and the values to get the cost of capital.)
- We will assume that this privately owned restaurant will have a debt to equity ratio (14.33%) similar to the average publicly traded restaurant (even though we used retailers to the unlevered beta).
  - $\blacksquare$  Levered beta = 2.36 (1 + (1-.4) (.1433)) = 2.56
  - □ Cost of equity =4.25% + 2.56 (4%) = 14.50%

(T Bond rate was 4.25% at the time; 4% is the equity risk premium)

#### Estimating a cost of debt and capital

 While the firm does not have a rating or any recent bank loans to use as reference, it does have a reported operating income and lease expenses (treated as interest expenses)

Coverage Ratio = Operating Income/ Interest (Lease) Expense = 400,000/ 120,000 = 3.33

Rating based on coverage ratio = BB+ Default spread = 3.25% After-tax Cost of debt = (Riskfree rate + Default spread) (1 – tax rate)

$$= (4.25\% + 3.25\%) (1 - .40) = 4.50\%$$

- To compute the cost of capital, we will use the same industry average debt ratio that we used to lever the betas.
  - $\square$ Cost of capital = 14.50% (100/114.33) + 4.50% (14.33/114.33) = 13.25%
  - □(The debt to equity ratio is 14.33%; the cost of capital is based on the debt to capital ratio)

### Step 2: Clean up the financial statements

	Stated	Adjusted	
Revenues	\$1,200	\$1,200	
- Operating lease expenses	\$120		Leases are financial expenses
- Wages	\$200	\$350	! Hire a chef for \$150,000/year
- Material	\$300	\$300	
- Other operating expenses	\$180	\$180	
Operating income	\$400	\$370	
- Interest expnses	\$0	\$69.62	7.5% of \$928.23 (see below)
Taxable income	\$400	\$300.38	
- Taxes	\$160	\$120.15	
Net Income	\$240	\$180.23	

Debt	0	\$928.23	! PV of \$120 million for 12 years @7.5%

#### Step 3: Assess the impact of the "key" person

- Part of the draw of the restaurant comes from the current chef. It is possible (and probable) that if he sells and moves on, there will be a drop off in revenues. If you are buying the restaurant, you should consider this drop off when valuing the restaurant. Thus, if 20% of the patrons are drawn to the restaurant because of the chef's reputation, the expected operating income will be lower if the chef leaves.
  - Adjusted operating income (existing chef) = \$370,000
  - Operating income (adjusted for chef departure) = \$296,000
- As the owner/chef of the restaurant, what might you be able to do to mitigate this loss in value?

#### Step 4: Don't forget valuation fundamentals

To complete the valuation, you need to assume an expected growth rate. As with any business, assumptions about growth have to be consistent with reinvestment assumptions. In the long term,

Reinvestment rate = Expected growth rate/Return on capital

 In this case, we will assume a 2% growth rate in perpetuity and a 20% return on capital.

Reinvestment rate = g/ROC = 2%/20% = 10%

Even if the restaurant does not grow in size, this reinvestment is what you need to make to keep the restaurant both looking good (remodeling) and working well (new ovens and appliances).

#### Step 5: Complete the valuation

- Inputs to valuation
  - Adjusted EBIT = \$ 296,000
  - Tax rate = 40%
  - Cost of capital = 13.25%
  - Expected growth rate = 2%
  - Reinvestment rate (RIR) = 10%
- Valuation

Value of the restaurant = Expected FCFF next year / (Cost of capital –g)

= Expected EBIT next year (1- tax rate) (1- RIR)/ (Cost of capital -g)

= 296,000 (1.02) (1-.4) (1-.10) / (.1325 - .02)

= \$1.449 million

Value of equity in restaurant = \$1.449 million - \$0.928 million (PV of leases) b= \$0.521 million