Investment Fundamentals

Or How My Clients Invested \$1,000 in Real Estate and Became Wealthy Over Time

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Rules of engagement

In order to receive credit for this course, you must:

- have your webcam on 90% of the time;
- keep your device stationary;
- respond to polls, questions, and assignments;
- have pencil, eraser and calculator handy;
- minimize other distractions to participation.

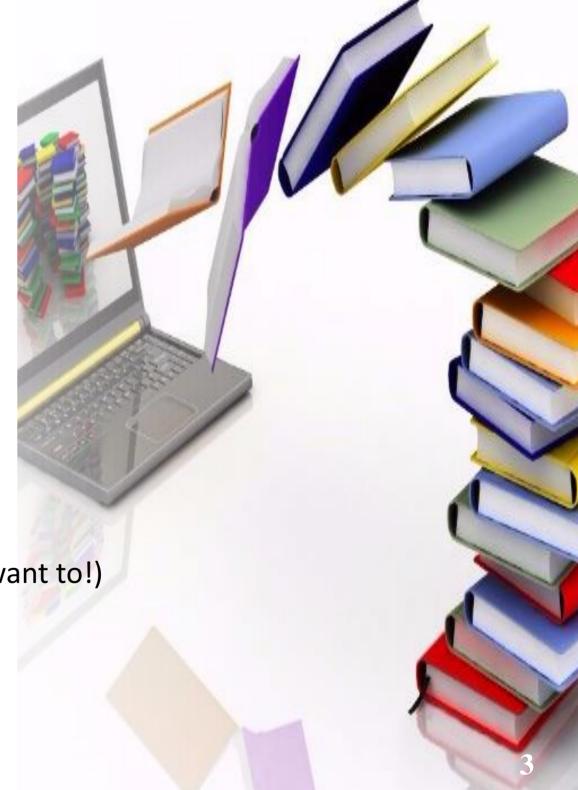
Do you agree to the rules of engagement?



Your course materials:

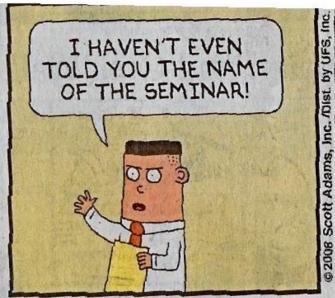
https://debbietheteacher.com/ifcourse

- two copies of FMRR form
- one copy of Ott Case Study
- one copy of Case Study #2
- one copy of Tables A and B
- The textbook
 - Do not print the textbook as it is very long (unless you want to!)

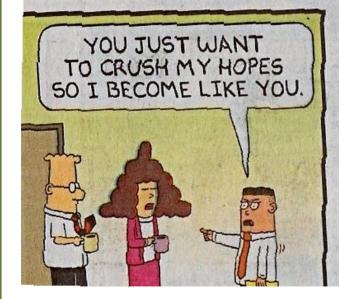




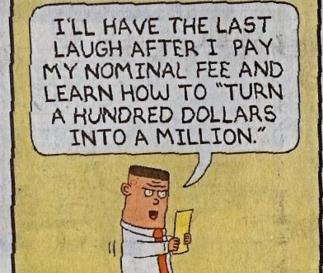














Course objectives

By the end of this 4-hour program, students will be able to:

- Compare and contrast various measures of return;
- Perform an investment analysis of income/rental property using the FMRR.

Qualifying the investor (pp. 33-37)

- Amount of initial investment required.
- Amount and timing of cash flows expected from the investment.
- The certainty of anticipated investment performance.
- Amount of expertise and time required to manage the investment.
- Tax impact.
- Yield measurement.

Yield measurements: (p. 35)

When a prospective landlord states, "a 5% return," the real estate agent needs to know if the client is referring to:

- 5% return on a cash investment equal to the purchase price (capitalization rate); OR
- 5% return on the down payment (cash-on-cash return/equity dividend rate); OR
- 5% return on the down payment, closing costs and other initial expenses; OR
- before-tax 5% return; OR
- after-tax 5% return; OR
- •5% return this year; OR
- average 5% return for every year of ownership; OR
- 5% return including sale proceeds (FMRR).

This course discusses the following yield measurements:

- A return on a cash investment equal to the purchase price (capitalization rate);
- A return on the down payment (equity dividend rate);
- A return including sale proceeds (FMRR).

Capitalization Rate

(pp. 40-43)

Process of converting future income into a single present amount.

Net Operating Income

Cash Value =

Cap Rate

A pro forma or reconstructed operating statement

- Create a statement of projected income and expenses statement for the next 12 months.
- Base projections on one or two years and from other available resources.
- Use annual figures.

40 units - Efficiency	\$312,000
60 units - 1 Bedroom / 1 Bath	\$864,000
40 units - 2 Bedroom / 2 Bath	\$1,008,000
POTENTIAL RENTAL INCOME	\$2,184,000
General Vacancy	(\$196,560)
EFFECTIVE RENTAL INCOME	\$1,987,440
Property Taxes	(\$146,500)
Insurance	(\$15,000)
Management Fee	(\$262,080)
Repairs and Maintenance	(\$90,000)
Office Expense	(\$20,000)
Advertising	(\$12,000)
Utilities	(\$65,000)
Miscellaneous Expenses	(\$25,000)
Reserves	(\$35,000)
Total Expenses	(\$670,580)
NET OPERATING INCOME	\$1,316,860

The capitalization rate

Drojected grass income	¢14.400
Projected gross income	\$14,400
- vacancies (8%)	<u>-1,152</u>
Effective gross income	\$13,248
- operating expenses	<u>- 4,600</u>
Net operating income	\$8,648
- vacancies (8%)Effective gross income- operating expenses	-1,152 \$13,248 - 4,600

\$8,648 Net Op. Income \$175,000 Sales Price (V)

= 4.94% cap rate

Problems with Cap Rate

- Considers operating expenses.
- Considers periodic vacancy.
- What does it ignore?
 - appreciation
 - financing/leveraging
 - tax consequences and
 - proceeds from the sale.

Cash-on-cash return

(or equity dividend rate/EDR) (pp. 43-45)

Measures the return received on the initial investment.

Cash Flow (BTCF)

= Cash-on-cash return

Initial Investment

(or equity dividend rate)

Calculating the cash-on-cash return

Projected gross income	\$14,400
- vacancies (8%)	<u>-1,152</u>
Effective gross income	\$13,248
 operating expenses 	<u>- 4,600</u>
Net operating income	\$ 8,648
- debt service (\$1,766 is principal)	<u>- 7,891*</u>
(Before-Tax) Cash Flow	\$ 757

*assumes \$175,000 purchase; 30% down; \$122,500 loan at 5% for 30 years

```
$175,000

<u>x 30% down</u>

$52,500

<u>+ 3,500 closing costs</u>

$56,000 total down
```

```
$ 757 BTCF = $56,000 down pmt including $3,500 in closing costs
```

1.35% cash-on-cash return or EDR

Problems with the Cash-on-Cash Return

- Considers operating expenses and leverage.
- But what does it still ignore?
 - tax consequences;
 - appreciation; and
 - sales proceeds.

Financial Management Rate of Return (FMRR) (p. 47)

- Assumes that investor wants long-term wealth building.
- FMRR is considered by many to be one of the best measurement tools.

Let's talk tax consequences first:

Calculating taxable income

(p. 49)

	Projected gross income	\$14,400	
	<u>- vacancies</u>	<u>- 1,152</u>	
	Effective gross income	\$13,248	
	 operating expenses 	<u>- 4,600</u>	
	Net operating income	\$ 8,648	
	-interest	- 6,125	
f	-depreciation	<u>- 16,660</u>	
е	Taxable Income	- 14,137	

What is the significance of negative taxable income?

Negative taxable income is a GOOD thing.

Net operating income	\$ 8,648
-interest	- 6,125
-depreciation	- 16,660
Taxable Income	- 14,137
<u>Tax bracket</u>	x 32%
Tax saved	- \$4,524

If Bill and Ginny earned \$100,000 of ordinary income, the IRS would see it this way:

\$100,000 income

-14,137 loss of income on condo
\$85,863 taxable income

This is \$4,524 the IRS is NOT receiving.

What if the **taxable income** were positive?

Calculating Depreciation



Purchase price	\$175,000
Closing costs	+3,500
Total acquisition costs	\$178,500
Improvement Value	x 80%
Cost basis	\$142,800

How Tax Reform Acts Have Reduced Depreciation Deductions (p. 51)

In 1981

Under ACRS:

\$9,520 x 175% =

\$16,660 depreciation deduction

Projected gross income	\$14,400
<u>- vacancies</u>	<u>- 1,152</u>
Effective gross income	\$13,248
- operating expenses	<u>- 4,600</u>
Net operating income	\$ 8,646
-interest	- 6,125
-depreciation	- <u>16,660</u>
Taxable Income	- 14,137
x tax bracket	x 50%
Tax saved	\$ 7,069

Current Rules: Residential Property

NO ACRS 🙁

Current Rules: Commercial Property

$$\frac{142,800 \text{ Cost Basis}}{39 \text{ years}} = $3,662$$

No ACRS (S)

\$14,400
<u>- 1,152</u>
\$13,248
<u>- 4,600</u>
\$ 8,648
- 6,125
- 16,660
- 14,137
x 50%
\$ 7,069

30

24% tax bracket

Projected gross income	\$14,400
<u>- vacancies</u>	<u>- 1,152</u>
Effective gross income	\$13,248
 operating expenses 	<u>- 4,600</u>
Net operating income	\$ 8,648
-interest	- 6,125
-depreciation	- 5,193
Taxable Income	- 2,670
x tax bracket	x 24%
Tax saved	\$ 641

35% tax bracket

Projected gross income	\$14,400
<u>- vacancies</u>	<u>- 1,152</u>
Effective gross income	\$13,248
 operating expenses 	<u>- 4,600</u>
Net operating income	\$ 8,648
-interest	- 6,125
-depreciation	- 5,193
Taxable Income	- 2,670
x tax bracket	x 35%
Tax saved	\$ 935

Calculate after-tax cash flow (ATCF)

Before tax cash flow

+ tax saved or (- taxed owed)

After-tax cash flow

\$1,398

Before-tax cash flow: \$ 757 *
+ tax savings + 641**

After-tax cash flow

* Slide 19

**Slide 31

After-tax equity dividend rate

After-tax cash flow: Down payment

Before-tax equity dividend rate

Two more potential taxes on the ownership / sale of investment property

- Income tax on rents/income ✓
- 2. Capital gains tax on the sale
- 3. Depreciation recapture tax on the sale



2. Capital Gains Tax

American Tax Relief Act of 2012 (TATRA)

Long-term capital gains tax is a tax on profits from the sale of an asset held for more than one year.

2021 capital gains tax rates

Remember the rules on the capital gain of a personal residence are different.

Tax-filing status	Single	Married, filing jointly	Married, filing separately	Head of household
0%	\$0 to \$40,400	\$0 to \$80,800	\$0 to \$40,400	\$0 to \$54,100
15%	\$40,401 to	\$80,801 to	\$40,401 to	\$54,101 to
	\$445,850	\$501,600	\$250,800	\$473,750
20%	\$445,851 or	\$501,601 or	\$250,801 or	\$473,751 or
	more	more	more	more

Short-term capital gains are taxed as ordinary income according to federal income tax brackets.

How do you calculate capital gains taxes?

Sales price (in future)	\$202, 825
-costs of sale (commission, etc) (6%)	-12,170
Realized sales price	\$190,655
-Acquisition costs (purchase price, closing costs)	<u>-178,500</u>
Capital gain	\$12,155
X appropriate tax rate	<u>X?</u>
Capital gain tax due	\$\$\$\$

3. Depreciation Recapture Tax

- Add up all the depreciation you have taken.
- Currently taxed at 25%

• Depreciation *must* be taken.

- \$5,193 yearly dep. deduction

 x 5 years

 25,965 depreciation

 X 25%

 \$6,491 dep. tax
- Remember: when you sell an investment property for cash, you must pay both capital gains and depreciation recapture taxes.

Future Value of Money:

Table A: The "WC Fields Table" or Put \$1 away and fuggadaboutit, pp. 68-69

68 chapter seven

Table A. Future Value of \$1 Lump Sum (or the Value of \$1 Saved Each Year) Compounded at Various Interest Rates for Various Periods

Year	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%
1	1.010	1.020	1.030	1.040	1.050	1.060	1.070	1.080	1.090	1.100
2	1.020	1.040	1.061	1.082	1.103	1.124	1.145	1.166	1.188	1.210
3	1.030	1.061	1.093	1.125	1.158	1.191	1.225	1.260	1.295	1.331
4	1.041	1.082	1.126	1.170	1.216	1.262	1.311	1.360	1.412	1.464
5	1.051	1.104	1.159	1.217	1.276	1.338	1.403	1.469	1.539	1.611
6	1.062	1.126	1.194	1.265	1.340	1.419	1.501	1.587	1.677	1.772
7	1.072	1.149	1.230	1.316	1.407	1.504	1.606	1.714	1.828	1.949
8	1.083	1.172	1.267	1.369	1.477	1.594	1.718	1.851	1.993	2.144
9	1.094	1.195	1.305	1.423	1.551	1.689	1.838	1.999	2.172	2.358
10	1.105	1.219	1.344	1.480	1.629	1.791	1.967	2.159	2.367	2.594

Time Value of Money: Lump Sum (pp. 68-69)

Future value--using

Table

The future value of \$1 at 10% in 10 years

Where would Table A be useful in determining the value of rental property?

6 in 10

6 for 20

years

• $$10,000 \times 6.727 = $67,270$

Future Value of Money:

Table B: save \$1 today and then \$1 next year, pp. 70-71

70 chapter seven

Table B. Future Value of \$1 Annuity (or the Value of \$1 Saved Each Year + \$1 Added Each Year) Compounded at Various Interest Rates for Various Periods

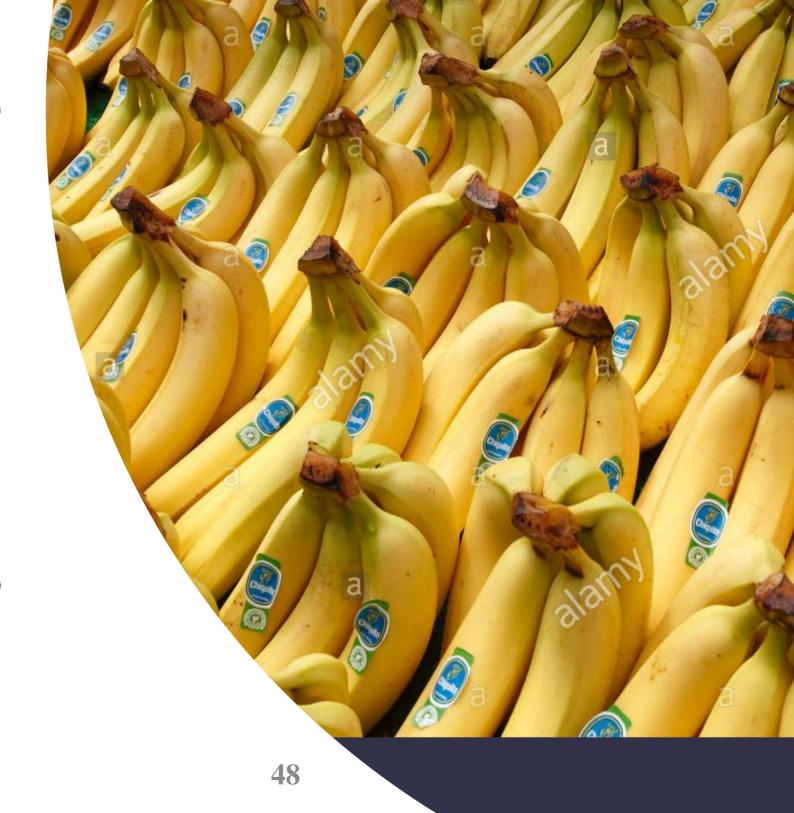
										•
Year	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%
1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2	2.010	2.020	2.030	2.040	2.050	2.060	2.070	2.080	2.090	2.100
3	3.030	3.060	3.091	3.122	3.153	3.184	3.215	3.246	3.278	3.310
4	4.060	4.122	4.184	4.246	4.310	4.375	4.440	4.506	4.573	4.640
5	5.101	5.204	5.309	5.416	5.526	5.637	5.751	5.867	5.985	6.100
6	6.152	6.308	6.468	6.633	6.802	6.975	7.153	7.336	7.523	7.710
7	7.214	7.434	7.662	7.898	8.142	8.394	8.654	8.923	9.200	9.480
8	8.286	8.583	8.892	9.214	9.549	9.897	10.260	10.637	11.028	11.430
9	9.369	9.755	10.159	10.583	11.027	11.491	11.978	12.488	13.021	13.570
10	10.462	10.950	11.464	12.006	12.578	13.181	13.816	14.487	15.193	15.930
										-

Time Value of Money: Annuity

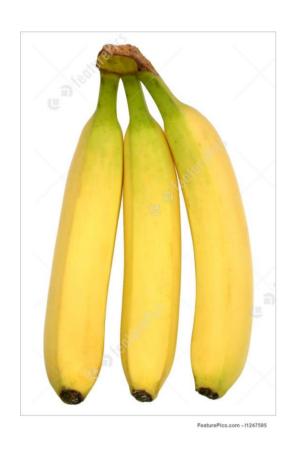
Table B: useful in determining the Fu value of US ca •your 401k? •savings for college tuition? Rental property?

One more step before we put it all together.

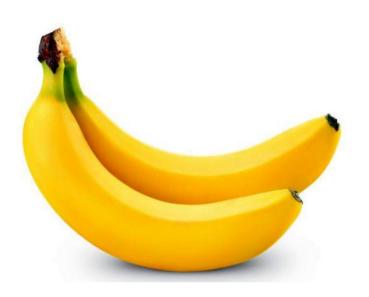
If you invested \$100 in bananas (\$1 each) and received a annual return of 3% of those bananas, how many bananas will you get back at the end of the year?



Three bananas. *Before tax.*



How many bananas would you have *after tax* if you were in the 33% tax bracket?



Approximately two bananas after tax.

What's the math you performed to get two bananas?

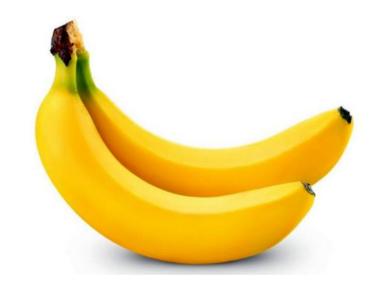
$$3 \qquad x 67\% = 2$$



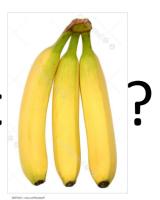
X 67% =

(what you keep)

(100%-33%=67%)



Why are we talking about



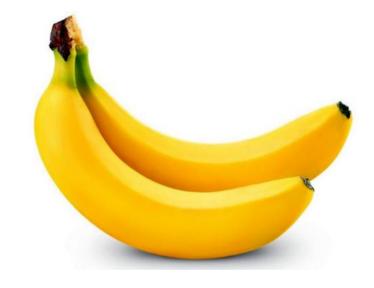
- Because we want to compare bananas to bananas--NOT bananas to oranges.
- The FMRR is based on after-tax calculations.
- How do we know if the FMRR is a good number?
- We compare the investor's return on alternative investments to the FMRR.
- If investors say that they can get 3% (or bananas) on another investment (say, the stock market market)—that's a before-tax return.
- We have to convert that 3% to an after-tax return.
- So we have to convert the 3% before-tax to an after-tax return of 2%.
- Now we know that the FMRR has to be better than 2%.



X 67% =

(what you keep)

(100%-33%=67%)

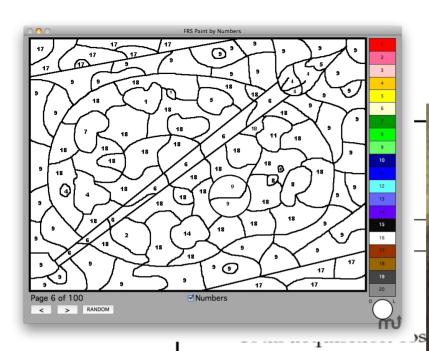


The Otts, p. 76

Case Study #1

Mr. and Mrs. Ott:

• are considering the purchase of a condo at 111 Condo Drive.



1st mortgage:_

Debt service:

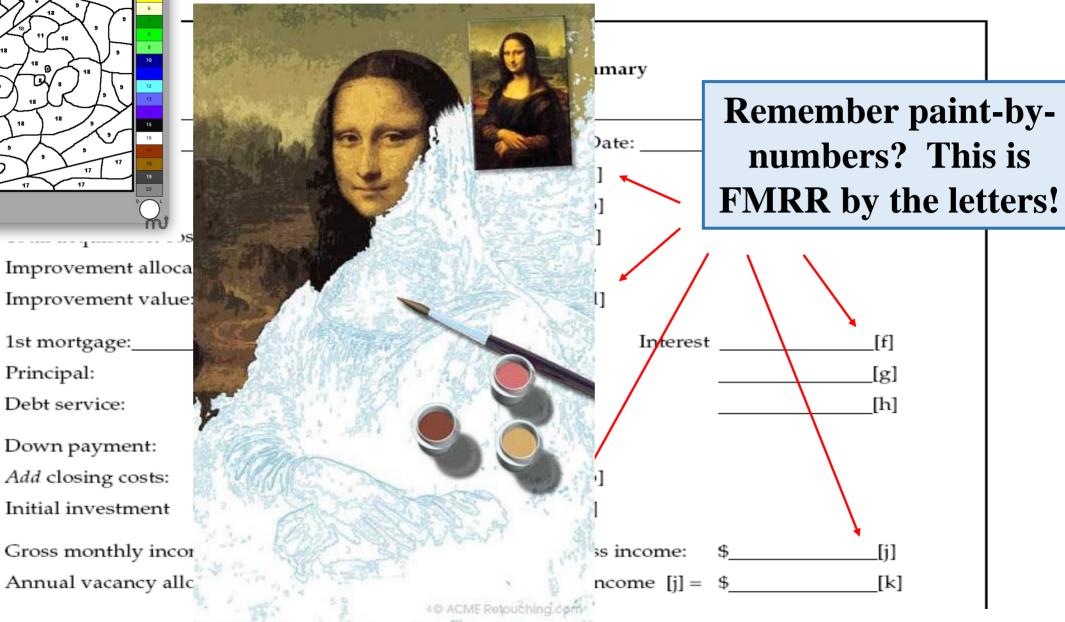
Down payment:

Add closing costs:

Initial investment

Principal:

Worksheet 1



The purpose of Worksheet #1

To lay out all of the paints and label them.

Worksheet 1: Property Summary

Rev. 2018

Property Address: 111 Condo Drive
Investor: Ott Date:

 Purchase price:
 \$175,000
 [a]

 Add closing costs:
 +
 3,500
 [b]

 Total acquisition cost:
 \$178,500
 [c]

 Improvement allocation
 x
 80
 %

 Improvement value
 \$142,800
 [d]

The purpose of worksheet 1- to get all the ingredients for the recipe laid out and labeled

 1st mortgage:
 \$122,500
 [e] x rate 5 % = Interest 6,125
 [f]

 Principal:
 + 1,766
 [g]

 Debt Service
 7,891
 [h]

Down payment: \$ 52,500 Add closing costs + 3,500 [b]

Initial investment: \$\\ \frac{56,000}{}{} [i]

Gross monthly income: \$1200 x 12 = yrly. gross income: \$14,400 [j]

Annual vacancy allowance: 8 % x yrly. gross income [j] = \$ 1,152 [k]

Annual Operating Expenses

Property taxes: \$\frac{2,600}{2,600}\$

Insurance: +\$\frac{200}{200}\$

Utilities: +\$\frac{1,800}{200}\$

Other: +\$\frac{1,800}{200}\$

Other: +\$\frac{1}{200}\$

Other: +\$\frac{1}{200}\$

Other: +\$\frac{1}{200}\$

Other: | -\$\frac{1}{200}\$

Operating exp :\$\frac{1}{200}\$

[1]

Investor's tax bracket _______%[m]

Holding period: 5 yrs. [n]

Ann.appreciation: ____3___% [o]

Proj. cost of sale: 6 % [p]

Inv. pre-tax rate:

3 %

 $(100\% - 24\% \text{ tax bracket } [m] = x_{6}\%$

After-tax rate of return:

2 % [q] (rounded) (This rate is the investor's desired after-tax rate of return. This rate should be contrasted with the FMRR on Worksheet 5.)

-1-

The purpose of Worksheet #2

- To estimate how much cash the Otts will have at the end of the year.
- To calculate the cap rate and the before-tax equity dividend rate.

Worksheet 2: Before-Tax Cash Flow

Potential gross income: 14,400 [j]

Effective gross operating income: 13,248

Net operating income (NOI): 8,648 [r]

Before-Tax Cash Flow (BTCF) 757 [s]

Your client may want to know:

NOI (r) 8,648 = 4.94% Pur.\$ (a) 175,000

(cap rate)

Your client may want to know:

$$\frac{\text{BTCF (s)}}{\text{Equity (i)}} = \frac{757}{56,000} = 1.35\%$$

before-tax equity dividend rate

The purpose of Worksheet #3

- To estimate how much cash the Otts will have remaining after they pay taxes on their investment's earnings.
- To calculate the after-tax equity dividend rate.

Worksheet 3: After-Tax Cash Flow

[u]

Net operating income \$ 8,646 [r]

Less annual interest payment - 6,125 [f]

less depreciation - 5,193 [t]

Taxable income/loss \$ -2,670

x tax bracket x 24% % [m]

Tax savings (if negative)

Improvement value \$ 142,800 [d]

Divided by economic life ÷ 27.5 27.5 or 39 yrs

Annual depreciation deduction \$ 5,193 [t]

Your client may want to know:

ATCF (v) 1,398
Equity (i) 56,000 2.5%

after-tax equity dividend rate

or tax liability (if *positive*) \$

Before-tax cash flow:

-641

Add tax savings or subtract tax liability:

After-tax cash flow:

\$ 757 [s] +/- 641 [u] \$ 1,398 [v]

The purpose of Worksheet #4

- To estimate how much cash the Otts will after they sell the investment in five years.
- To calculate their appreciated value.
- To calculate their capital gain and depreciation recapture taxes.

Worksheet 4: After-Tax Proceeds from the Sale

175,000 Purchase price: a 1.159 Factor from Table A 202,825 Projected sales price: [w]12,170 $[p^2]$ Less cost of sale: [p¹] 6 % 190,655 Realized sales price: 178,500 Less total acquisition [c] 12,155 Capital gain x 15 % x max. cap gain tax (5%, 15% or 20%) 1,823 Capital gain tax due 6,491 Add deprec recap tax 8,314 [x]Tax due from sale*

Depreciation Recapture 5,193 depreciation [t] x 5 holding period [n] = \$ 25,965 total depreciation x 25% deprec. recap. tax rate \$ 6,491 depreciation recap. tax

 Projected sales price
 \$ 202,825 [w]

 Less sales costs
 - 12,170 [p²]

 Less mtg. balance
 - 112,490 [*]

 Less tax due
 - 8,314 [x]

 Net after-tax sales proceeds \$ 69,851 [y]

*Note: If sellers receive cash from the sale of their investment, the tax cannot be postponed. Sellers should consider a 1031-tax-deferred exchange before selling for cash.)

^{*}instructor will provide or use amortization table

The purpose of Worksheet #5

- To estimate how the total future wealth obtain by the Otts when they consider not only their sales proceeds but also the cash the investment has earned every year for five years.
- To calculate their FMRR.

Worksheet 5: Performance Summary

After-tax cash flow:

[v]

Factor from Table B

x 5.204

Amount accumulated:

5 7,275

Use Table B and look up the factor for

2 %_inv. after-tax rate of return [q]

______ yrs_holding period [n]

5.204 factor

Plus net after-tax proceeds from sale

+______[y]

Total future wealth: [FV]

\$ 77,126 [z]

What *percentage return* on investment would the investor have received in order to have earned the **total future wealth** (above) after investing the **initial investment** (i) for the **holding period** (n)? Guess the rate of return. You may have to try several

factors from Table A as a multiplier to approximate the following: Initial investment x factor = total future wealth.

Initial investment: \$______[i]

Factor x =

Total future wealth: 77,126 [z]

(SHORTCUT: divide the total wealth by the initial investment; the result will be the

Factor; then look at Table A and go down the column for years to find the holding

period; then go across that row to find the closest factor you can find in that row.

The result is the approximate FMRR).

Use Table A and look up the factor for

rate $\frac{5}{\text{holding period [n]}}$

factor

Try different rates. The one that gets you closest to the amount for total future wealth [z] is the approximate FMRR.

Calculating the FMRR: Performance Summary

- Investors must ask, "What rate of return did I receive if I invested \$56,000 in this condominium for 5 years and received \$77,126 at the end of the holding period?"
- While a financial spreadsheet or calculator could do this calculation in seconds, calculating the FMRR by hand is more tedious.
- The investor must actually play a guessing game and use Table A to answer this question.

Guessing Game

- Let's guess that the Otts received 5% on their investment.
- Using Table A, we find that the factor for 5% for 5 years is _____.

56,000 Present Value

X

? Future Value

Could the rate have been 8%?

At 8%, the factor is ____:

56,000 Present Value

x
? Future Value

Financial Management Rate of Return (FMRR) between 6%-7% %

Note regarding the use of this form for clients

The numbers and percentages used in this analysis are based on assumptions about the future. For example, this analysis assumes that tax laws currently in effect will not change. The information on this analysis, as a consequence, **is not a guarantee** of investment performance.

Case Study 2: Radcliffe See Handout

Property Address: Case Study 2 Investor: Date: Today **\$280,000** [a] Purchase price: 3,150 _[b] Add closing costs: 283,150 Total acquisition cost: Improvement allocation Improvement value 198,205 210,000 [e] x rate 5% = 10,500 Interest 1st mortgage: Principal: **3,028** [g] Debt Service 13,528 [h] 70,000 Down payment: 3,150 Add closing costs [b] 73,150 Initial investment: [i] 36,000 Gross monthly income: 3,000 x 12 = yrly. gross income: \$2,880 [k] Annual vacancy allowance: **8** % x yrly. gross income [j] =

Annual Operating Expenses 6,800 Property taxes: Insurance: 500 Utilities: +\$ 6,000 Maintenance: +\$ 900 Other: Annual 14,200 Operating exp [1]

Investor's tax bracket _____35__%[m]

Holding period: ____5_yrs. [n]

Ann.appreciation: ____3__% [o]

Proj. cost of sale: ____6__% [p]

Worksheet 2: Before-Tax Cash Flow

36,000 Potential gross income: 2,880 Less vacancy allowance [k] Effective gross operating income: 33,120 Less total operating expenses 14,200 18,920 Net operating income (NOI): [r]13,528 Less debt service [h]5,392 s Before-Tax Cash Flow (BTCF)

Your client may want to know:

NOI (r) 18,920 6.8% Pur.\$ (a) 280,000 (cap rate)

Your client may want to know:

 $\frac{\text{BTCF (s) } 5,392}{\text{Equity (i)} 73,150} = 7.4\%$

before-tax equity dividend rate

Worksheet 3: After-Tax Cash Flow

Net operating income \$ 18,920 [r]

Less annual interest payment

-<u>10,500</u> [f]

less depreciation

Taxable income/loss

s 3,338

x tax bracket

x____35_% [m]

5,082 [t]

Tax savings (if negative) or tax liability (if positive) \$__

\$____1,168___[u]

Your client may want to Befo

ATCF (v) 4,224 = Equity (i) 73,150

after-tax equity dividend rate Before-tax cash flow:

5.8% Add tax savings or subtract tax liability:

After-tax cash flow:

\$______[s]

Improvement

Divided by

deduction

economic life

Annual depreciation

value

+/-_____[u]

Depreciation Calculation

÷ 39

198,205

5,082

27.5 or 39 yrs

ΓtΤ

______[v]

Purchase price:

\$______[a]

Factor from Table A

1.159

Projected sales price:

\$ _____**324,520** [w]

Less cost of sale: [p¹]_6_%

-___**19,471**__ [p²]

Realized sales price:

\$ 305,049

Less total acquisition

_ 283,150 [c]

Capital gain

x max. cap gain tax (5%, 15% or 20%)

x <u>20</u>%

Capital gain tax due

4,380

Add deprec recap tax

6,353

Tax due from sale*

10,733 [x]

Use Table A and look up the factor for

____3 %_ann. appreciation rate [o] 5 yrs holding

1.159 period [n] factor

Depreciation Recapture

5,082 depreciation [t]

x 5 holding period [n]

= \$ 25,411 total depreciation

x 25%_deprec. recap. tax rate

\$__6,353 depreciation recap. tax

 Projected sales price
 \$ 324,520 [w]

 Less sales costs
 - 19,471 [p²]

 Less mtg. balance
 - 192,840 [*]

 Less tax due
 - 10,733 [x]

 Net after-tax sales proceeds \$ 101,476 [y]

*Note: If sellers receive cash from the sale of their investment, the tax cannot be postponed. Sellers should consider a 1031-tax-deferred exchange before selling for cash.)

^{*}instructor will provide or use amortization table

Worksheet 5: Performance Summary

After-tax cash flow:

5 4,224

Factor from Table B

__x 5.204

Amount accumulated:

s 21,982

Plus net after-tax proceeds from sale

+___101,476 [y]

[v]

Total future wealth: [FV]

<u>s 123,458</u> [z]

Use Table B and look up the factor for

2 %_inv. after-tax rate

of return [q]

5 yrs_holding period [n]

5.204 factor

What percentage return on investment would the investor have received in order to have earned the total future wealth (above) after investing the initial investment (i) for the holding period (n)? Guess the rate of return. You may have to try several

factors from Table A as a multiplier to approximate the following: Initial investment x factor = total future wealth.

Initial investment: \$ 73,150 [i]

Factor x ? =

Total future wealth: 123,458 [z]

(SHORTCUT: divide the total wealth by the initial investment; the result will be the

Factor; then look at Table A and go down the column for years to find the holding

period; then go across that row to find the closest factor you can find in that row.

The result is the approximate FMRR).

Use Table A and look up the factor for

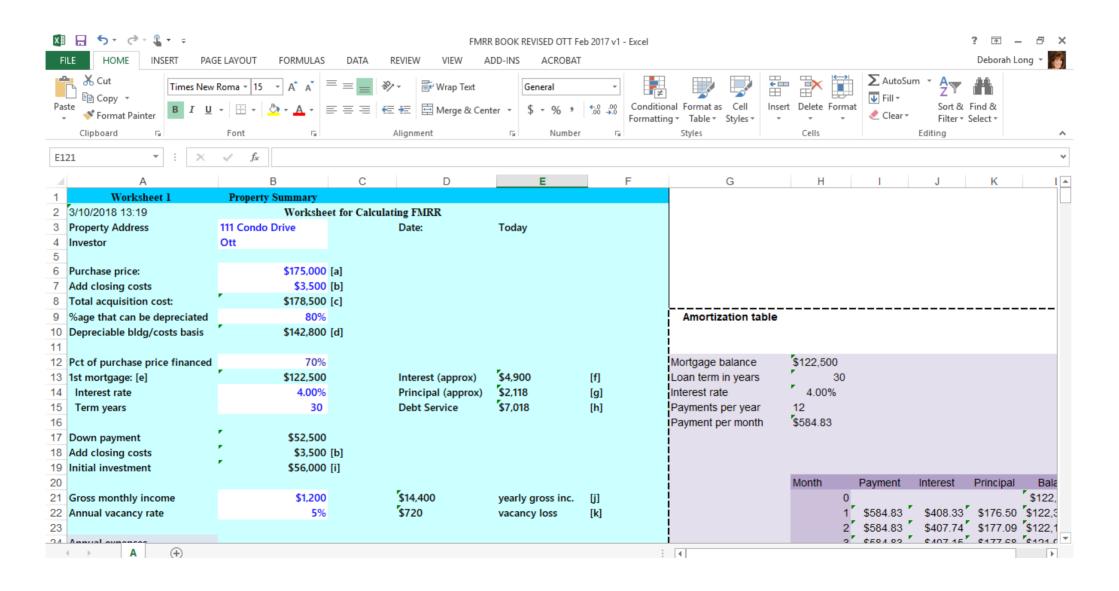
rate holding period [n]

factor

Try different rates. The one that gets you closest to the amount for total future wealth [z] is the approximate FMRR.

Financial Management Rate of Return (FMRR) <u>a little over 11</u>%

Let's look at my Excel spreadsheet.



FMRR assumes: (pp. 94-95)

- long-term wealth building
- exclusion of other tax deductions (e.g, state tax deductions)
- tax bracket stability
- current tax provisions are in effect
- constant appreciation
- positive cash flows are reinvested
- BE CAREFUL: the FMRR model tends to make leveraging very attractive; always compare with cap rate.

Responsibilities of Real Estate Professionals (pp. 95-97)

- obtain the skills required to analyze and compare alternative investment properties
 - Take a 1031 Tax-deferred Exchange course with an expert (try CLE or CCIM courses) and/or buy Tom Mahlum's book Understanding 1031 Tax Deferred Exchanges
- establish long-term relationships with clients who will buy and sell investment properties over time
- offer additional services to clients including property management

Responsibilities of Real Estate Professionals (cont.)

- evaluate the investor's financial and personal profiles and property attributes;
- provide appropriate information for investors in order to make decisions; but
- do not provide legal or accounting advice.

Stay in touch...

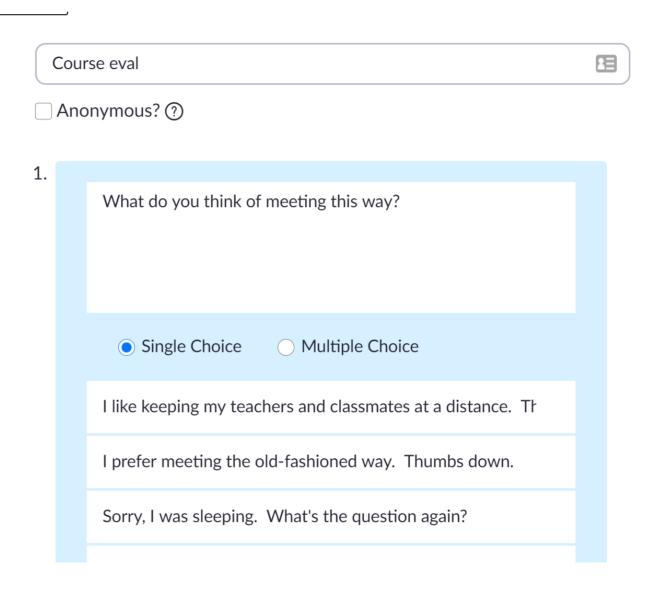


- www.debbietheteacher.com or
- •e-mail: *DebbieTheTeacher@gmail.com*

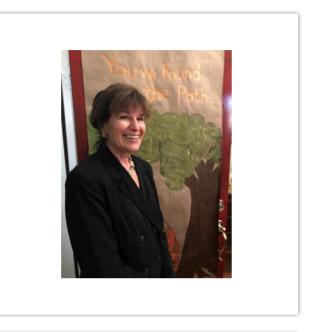
I'll send you the spreadsheet within 24 hours.
Play with it!

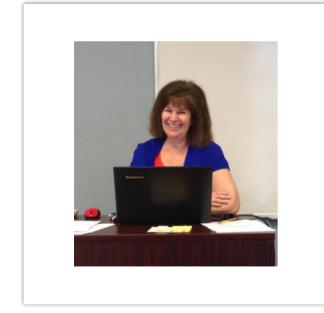
Polling question:

Course evaluation











It's always my pleasure to be your teacher.

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51 YEARS OF TEACHING