# **The High-Risers Club**

3.11.2025 – Math Equations You Must Know to Value, Sell or Lease Commercial Real Estate: Part 2

# **Coach Jeff Wright**

# Welcome



# Does anyone have anything great to share personally or professionally?





# **Greatness is Within**



# You Can Do This



- 1. Navigate to www.coachjeffwright.com
- 2. Login
- 3. Open Commercial Real Estate for Residential REALTORS ® Course
- 4. Scroll & select "Click Here to Download Math Equations"





# Scroll & select "Click Here to Download Math Equations" Open Download



4. Navigate to any equation via tabs or table of contents



4. Plug in numbers & to see workbook compute your equation.

\*\*\*Note: You will only be allowed to edit light yellow cells, other columns are locked so the formula does not change.



Please reach out to <u>owright@coachjeffwright.com</u> with any issues.

#### **Acres to Square Feet**

1 Acre = 43,560 Square Feet

Question: If a property's total acreage is 3, then the square footage would be computed as:

43,560 × 3 = 130,680 SF



#### Add-on Factor (Load Factor, Core Factor)

<u>Building Rentable Square Footage</u> Building Usable Square Footage = Add-on Factor

Question: If the rentable square footage of a building is 20,125 square feet and the usable square footage is 17,500, then the load factor is:

<u>20,125</u> = 1.15 17,500

Question: If the load factor is 15% and the usable space for the tenant is 2,000 SF, then the rentable space for the tenant would be computed as:

2,000 x 1.15 = 2,300



#### Appreciation

#### Future Resale Price - Original Purchase Price = Appreciation

Question: If the original purchase price of a property was \$500,000, determine the property's appreciated value if the future resale value is \$750,000.

#### \$750,000 - (\$500,000) = \$250,000



## **Cap Rate (Capitalization Rate)**

#### <u>Net Operating Income</u> = Cap Rate Sales Price (Value)

Question: Property A has a net operating income (NOI) of \$216,000 and a sales price of \$2,700,000. Property B has an NOI of \$220,000 and a sales price of \$2,275,000. What are the indicated cap rates and how do they compare?

Property A216,000<br/>\$2,700,000 = 8%Property B $\frac{220,000}{$2,275,000}$  = 9.67%



## **Cash Flow (Annual)**

#### Net Operating Income <u>- Annual Debt Service</u> = Annual Cash Flow

Question: If the property has an NOI of \$216,000, what will be the annual cash flow if the property has a mortgage with the following terms:

Mortgage Amount:	\$2,025,000
Interest Rate:	4.25%
Amortization:	25-years
Annual Debt Service:	\$131,642

\$216,000 <u>- (\$131,642)</u> = \$84,358



#### **Cash-on-Cash Return**

Annual Cash Flow (Down Payment + Soft Costs) = Cash-on-Cash Return

Question: The first year's annual cash flow before taxes is \$40,000 and the down payment is \$400,000. If soft costs are \$64,000, what is the investor's cash-on-cash return?

\$40,000 (\$400,000 + \$64,000) = 8.62%



#### **Costs of Sale**

#### Sale Price × Closing Costs = Costs of Sale

Question: If the sales price of a property is \$500,000 and the closing costs are estimated to amount to 7%, what are the estimated closing costs?

\$500,000 x 0.07 = \$35,000



#### **Effective Gross Income**

**Potential Gross Income** 

- (Vacancy + Credit Loss)

= Effective Gross Income



## **Efficiency Percentage**

<u>Usable Square Feet</u> = Efficiency Percentage Rentable Square Feet

Question: If a property has approximately 5,000 square feet of rentable square feet, but only 3,750 square feet is usable, what is the property's efficiency percentage?



#### **Expenses per Rental Unit**

Operating Expenses = Expenses per Rental Unit Number of Rental Units

Question: If the annual operating expenses on a property are \$160,000 and there are 10 units available to rent, what are the annual expenses per unit?



#### **Expenses per Square Foot**

#### <u>Operating Expenses</u> = Expenses per Square Foot Square Feet

Question: If the annual operating expenses on a property are \$255,820 and the net rentable area is 30,795 square feet, what are the annual expenses per square foot?



## **Gross Building Area**

#### Building Dimensions x Number of Floors = Gross Building Area

Question: If a building consists of three floors and its measurement is 71 feet x 100 feet, what is the gross building area?

7,100 x 3 = 21,300 SF



## Gross Operating Income (GOI)

Potential Gross Income(Vacancy + Credit Loss)= Gross Operating Income

Question: If the potential income of a property is \$240,000 and the vacancy and credit loss is 5%, what is the Effective Gross Income?

\$240,000 - (\$12,000) = \$228,000

