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Valuation Engineering Formulas

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List of 17 Valuation Engineering Formulas

Valuation Engineering 🔗

1) Annual Installment for Sinking Fund 🔗

Open Calculator 🔗

$$fx \quad I_a = S \cdot \frac{I_r}{(1 + I_r)^T - 1}$$

$$ex \quad 60.15038 = 8000 \cdot \frac{10}{(1 + 10)^3 - 1}$$

2) Annual Installment given Sinking Fund 🔗

Open Calculator 🔗

$$fx \quad I_a = I_c \cdot S$$

$$ex \quad 600 = 0.075 \cdot 8000$$

3) Annual Sinking Fund using Sinking Fund Method 🔗

Open Calculator 🔗

$$fx \quad S_a = \frac{I_r}{(1 + I_r)^x - 1}$$

$$ex \quad 0.083333 = \frac{10}{(1 + 10)^2 - 1}$$

4) Capitalized Value 🔗

fx $C_v = R_N \cdot Y$

ex $52800 = 4800 \cdot 11$

5) Capitalized Value using Profit Based Valuation 🔗

fx $C_v = R_N \cdot Y$

ex $52800 = 4800 \cdot 11$

6) Coefficient of Annual Sinking Fund 🔗

fx $I_c = \dfrac{I_r}{(1 + I_r)^T - 1}$

ex $0.007519 = \dfrac{10}{(1 + 10)^3 - 1}$

7) Coefficient of Annual Sinking Fund given Sinking Fund 🔗

fx $I_c = \dfrac{I_a}{S}$

ex $0.075 = \dfrac{600}{8000}$

8) Gross Rent given Net Rent in Rental Method

fx $R_G = R_N + O$

Open Calculator

ex $5320 = 4800 + 520$

9) Net Income using Profit Based Valuation

fx $NI = g_I - O$

Open Calculator

ex $200000 = 200520 - 520$

10) Net Rent using Rental Method of Valuation

fx $R_N = R_G - O$

Open Calculator

ex $4800 = 5320 - 520$

11) Outgoings using Rental Method

fx $O = R_G - R_N$

Open Calculator

ex $520 = 5320 - 4800$

12) Percentage Rate of Annual Depreciation

fx $P = 1 - \left(\dfrac{S_c}{OC} \right)$

Open Calculator

ex $0.9 = 1 - \left(\dfrac{350}{3500} \right)$

13) Rate of Interest given Years Purchase 🔗

Open Calculator 🔗

fx $I_r = \dfrac{100}{Y}$

ex $9.090909 = \dfrac{100}{11}$

14) Rate of Sinking Fund given YP 🔗

Open Calculator 🔗

fx $I_s = \left(\dfrac{1}{Y}\right) - I_p$

ex $0.010909 = \left(\dfrac{1}{11}\right) - 0.08$

15) Sinking Fund for Buildings 🔗

Open Calculator 🔗

fx $S = \dfrac{I_a}{I_c}$

ex $8000 = \dfrac{600}{0.075}$

16) Years Purchase 🔗

Open Calculator 🔗

fx $Y = \dfrac{100}{I_r}$

ex $10 = \dfrac{100}{10}$

17) Years Purchase when Sinking Fund is Recovered ⤴

Open Calculator ⤴

fx $$Y = \frac{1}{I_p + I_s}$$

ex $$11.0011 = \frac{1}{0.08 + 0.0109}$$

Variables Used

- C_v Capitalized Value
- g_I Gross Income
- I_a Annual Installment
- I_c Coefficent of Sinking Fund
- I_p Rate of Interest on Capital
- I_r Rate of Interest
- I_s Rate of Sinking Fund
- NI Net Income
- O Outgoings of Repairs
- OC Original Cost
- P Percentage Rate of Annual Depreciation
- R_G Gross Rent
- R_N Net Rental Income
- S Sinking Fund
- S_a Annual Sinking Fund
- S_c Scrap Value
- T Number of Years Money is Invested
- x Life of Asset in Years
- Y Years Purchase

Constants, Functions, Measurements used

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