## **TIME VALUE OF MONEY**

**Compound Interest**: (1+i)<sup>n</sup> where "i" is the periodic **Interest Rate** and "n" is the number of periods that are **Compounded**.

**Compounding**: Approach to taking a **Present Value** to a **Future Value**:

Future Value (FV) = Present Value  $x (1+i)^n$ 

**Discounting**: Approach to taking a **Future Value** back to **Present Value**:

Present Value (PV) = Future Value  $\div (1+i)^n$ 

**Annuities (PMT)**: Investments with constant future Periodic Payments.

Interest Rate (i), Effective Yield, Internal Rate of Return (IRR): Various measures of the Return on Capital or the Cost of Capital.

**Net Present Value (NPV):** The **Present Value** of all **Projected Future Cash Flows** discounted at a specified **Discount Rate**, less the cost of the **Investment**.

Internal Rate of Return (IRR): The calculated Discount Rate at which the Present Value of all Projected Future Cash Flows is equal to the cost of the Investment.

**Risk**: Is essential to evaluate in order to determine whether the expected **Investment Return** is sufficient in light of the perceived **Risk**.

n i	PV	PMT	FV
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