

MUTUAL FUNDS

1. Calculating Performance of Mutual Funds

Net Assets Value (NAV) = $\frac{\text{Net Assets} - \text{Liabilities}}{\text{Number of Units}}$

Net Assets of the scheme.

Market Value of Investments

Receivables

Other Accrued Income

Other Assets

Payables

Other Liabilities

Accrued Expenses

2. Cost of Mutual Funds

(i) Initial Expenses

(ii) Recurring Expenses

Return of Investor = $(\text{Return of MF} - \text{Recurring exp}) (1 - \text{Initial expenses})$

NAV = $\frac{(\text{NAV}_1 - \text{NAV}_0) + D_1 + CG_1}{100}$

NAV₀

(NAV₁ - NAV₀) = Unrealised Capital Gain

NAV₀ = Base NAV

D₁ = Dividend

CG₁ = Realised Capital Gain

4. Ratio used to evaluate the performance of mutual fund.

(a) Sharpe Ratio (S) = $\frac{(\text{Return Portfolio} - \text{Return Risk Free Asset})}{\text{Standard Deviation Portfolio}}$

* Numerator may be denoted as 'a'.

(b) Treynor Ratio = $\frac{R_p - R_{f(2)}}{B_p}$

$R_p = \text{Beta of Portfolio}$

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(c) Jensen's Alpha = Return Portfolio - Expected Return.

Given Investment in shares of ABC Ltd. 100 shares on 01/01/12. It is given that on 01/01/12, the NAV is ₹ 100.00 and on 01/01/12, the NAV is ₹ 120.00.

Dividend	NAV	Units	Total Value
0	100.00	100	10000
10.00	120.00	100	12000
10.00	120.00	100	12000
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Example: 100 shares + 20 shares = 120 shares. 120 shares x ₹ 120 = ₹ 14400.

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