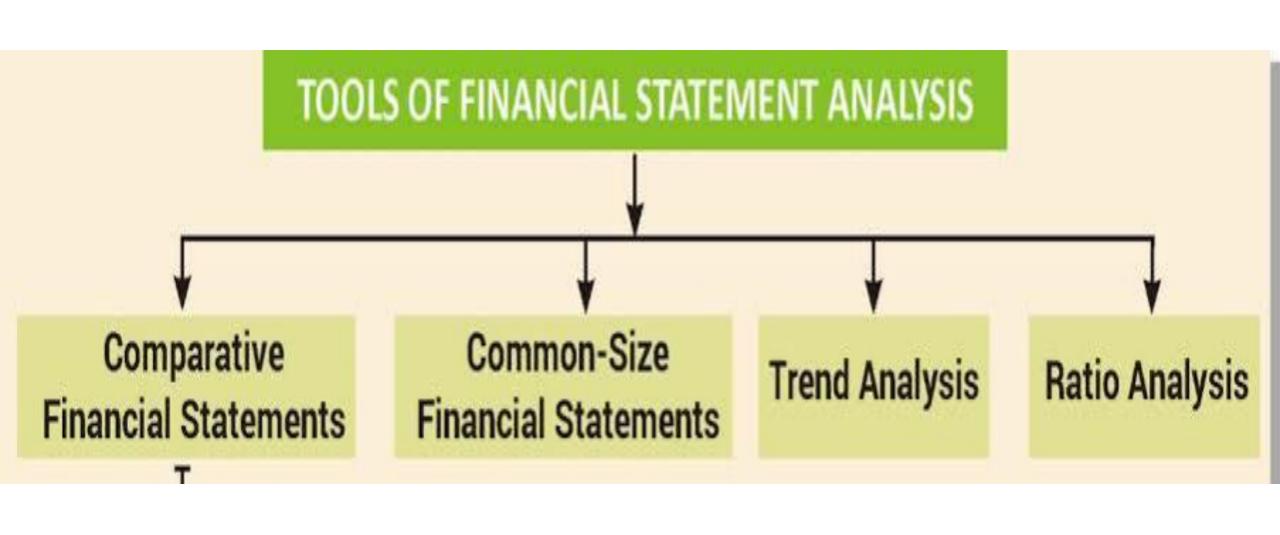
# Analysis and Interpretation of Financial Accounts

(Common size, Comparative, Trend Analysis)

- By Prof. Farha Patel



## Common Size Statement:

The statement wherein figures reported are converted into percentage to some common base is known as common size statement. Each percentage shows the relation of the individual item to its respective total.

## **Vertical Analysis Formula**

## Common Size Income Statement

for the years ended ...

Particulars	Absolute	Amounts	Percentage of Revenue from Operation (Net Sales)	
	Previous Year (₹)	Current Year (₹)	Previous Year (%)	Current Year (%)
(1)	(2)	(3)	(4)	(5)
l. Revenue from Operations (Net sales)	***	***	***	***
II. Other Income				
II. Total Revenue (I + II)	27.2	2022		
V. Expenses				
(a) Cost of Materials Consumed		***		
(b) Purchases of Stock-in-trade		***		
(c) Changes in Inventories of Finished Goods,		***		
Work-in-progress and Stock-in-trade				
(d) Employess Benefit Expenses	1	255		
(e) Finance Cost		17721	144	
(f) Depreciation and Amortisation	***	800	****	244
(g) Other Expenses		***	***	
Total Expenses	***	***		
V. Profit before Tax (III – IV)		*1*		
VI. (-) Income Tax		***		
VII. Profit after Tax	***	***		222

### Common Size Balance Sheet

as at ...

0727 24 32	Absolute	Amounts	Percentage of Balance Sheet Total	
Particulars (1)	Previous Year (₹)	Current Year (₹) (3)	Previous Year (%)	Current Year (%)
EQUITY AND LIABILITIES		107		157
1. Shareholders' Funds				
(a) Share Capital			125	
(i) Equity Share Capital	9		97950 49465	
(ii) Preference Share Capital				
(b) Reserves and Surplus			****	***
2. Non-current Liabilities	4			
(a) Long-term Borrowings		***	6900	***
(b) Long-term Provisions	1		***	99.0
3. Current Liabilities			100000	2000
(a) Short-term Borrowings	1	7-2223		222
(b) Trade Payables			1000	***
(c) Other Current Liabilities	1	100000	7220	
(d) Short-term Provisions		***	0996	
Total			100	100
II. ASSETS	1	- State and the state of the st	CONC. NEWSCOOL STATE OF THE SECOND SE	
1. Non-current Assets				
(a) Fixed Assets	1		5	
(i) Tangible Assets		***	1000	3.00
(ii) Intangible Assets		2		222
(b) Non-current investments	9		10000	***
(c) Long-term Loans and Advances	1	****		2-2
2. Current Assets	1			
(a) Current Investments	1	(74,44)	2423	222
(b) Inventories		2	52253	***
(c) Trade Receivables	2-42		4944	***
(d) Cash and Cash Equivalents		8,5550	5550	2.22
(e) Short-term Loans and Advances	***		64.60	***
(f) Other Current Assets			120	
Total	***		100	100

Liabilities	2005 (₹)	2006 (₹)	Assets	2005 (₹)	2006 (₹)
Equity Capital	1,00,000	1,65,000	Fixed Assets	1,20,000	1,75,000
Preference Capital	50,000	75,000	Stock	20,000	25,000
Reserves	10,000	15,000	Debtors	50,000	62,500
Profit and Loss Account	7,500	10,000	Bills Receivable	10,000	30,000
Bank Overdraft	25,000	25,000	Prepaid Expenses	5,000	6,000
Creditors	20,000	25,000	Cash at Bank	20,000	26,500
Provision for Taxation	10,000	12,500	Cash in Hand	5,000	15,000
Proposed Dividend	7,500	12,500			
	2,30,000	3,40,000		2,30,000	3,40,000

Prepare common size Balance Sheet and interpret the same.

### Answer

## Common Size Balance Sheet as on March 31, 2005 and 2006

Particulars	200	05	20	06
Particulars	Amount	Percentage	Amount	Percentage
Equity Capital	1,00,000	43.48	1,65,000	48.53
Preference capital	50,000	21.74	75,000	22.06
Reserves	10,000	4.35	15,000	4.41
Profit and Loss	7,500	3.26	10,000	2.94
Bank Overdraft	25,000	10.86	25,000	7.35
Creditors	20,000	8.69	25,000	7.35
Provision for Taxation	10,000	4.35	12,500	3.68
Proposed Dividend	7,500	3.27	12,500	3.68
Total Liabilities	2,30,000	100.00	3,40,000	100.00
Fixed Assets	1,20,000	52.17	1,75,000	51.47
Stock	20,000	8.69	25,000	7.35
Debtors	50,000	21.74	62,500	18.38
Bills Receivable	10,000	4.35	30,000	8.82
Prepaid Expenses	5,000	2.18	6,000	1.76
Cash at Bank	20,000	8.69	26,500	7.79
Cash in Hand	5,000	2.18	15,000	4.43
Total Assets	2,30,000	. 100.00	3,40,000	100.00

# From the following income statement, prepare a common size statement of profit and loss Jayant Ltd for the year ended 31st March, 2011

Particulars	Amt (₹)
Revenue from Operations	25,38,000
(+) Other Incomes	38,000
Total incomes	25,76,000
Expenses	1
Cost of Revenue from Operations	14,00,000
Operating Expenses	5,00,000
Total Expenses	19,00,000
Profit before Tax	6,76,000
(-) Income Tax	3,38,000
Profit after Tax	3,38,000

## Ans.

#### Common Size Statement of Profit and Loss for the year ended 31st March, 2011

Particulars	Amt (₹)	Percentage of Sales
I. Revenue from Operations (Sales)	25,38,000	100.00
II. Other Income	38,000	1.50
III. Total Revenue (1 + II)	25,76,000	101.50
IV. Expenses		
(a) Cost of Revenue from Operations	14,00,000	55.16
(b) Operating Expenses	5,00,000	19.70
Total Expenses	19,00,000	74.86
V. Profit before Tax (III - IV)	6,76,000	26.64
VI. Tax	3,38,000	13.32
VII. Profit after Tax (V - VI)	3,38,000	13.32

## Comparative Financial Statements

Statements used to compare the items of profit and loss account and balance sheet for ascertaining the trend of the performance and profitability of an enterprise are known as comparative financial statements.

# Horizontal Analysis Formula

Horizontal Analysis

(absolute) = Amount in Comparison Year - Amount in Base Year

# Comparative Income Statement for the years ended ...

Particulars	31st March, 2012 (₹)	31st March, 2013 (₹)	Absolute Change (Increase or Decrease) (₹)	Percentage Change (Increase or Decrease) (%)
. Revenue from Operations		22.5	522	***
II. Other Income			317	322
III. Total Revenue (I + II)			***	0000
IV. Expenses				
(a) Cost of Materials Consumed				
(b) Purchases of Stock-in-trade			1993	1004
(c) Changes in Inventories of Finished Goods, Work-in-progress and Stock-in-trade	1755		***	8355
(d) Employees Benefit Expenses		4		5000
(e) Finance Cost		***		
(f) Depreciation and Amortisation				
(g) Other Expenses			***	
Total Expenses				***
V. Profit before Tax (III – IV)	***	***		
(-) Income Tax				27.77
VI. Profit after Tax				

## Comparative Balance Sheet as at ...

Particulars	Previous Year (₹)	Current Year (₹)	Absolute Change (Increase or Decrease) (₹)	Percentage Change (Increase or Decrease) (%
I. EQUITY AND LIABILITIES				
1. Shereholders' Funds				1
(a) Share Capital			1	1
(i) Equity Share Capital				
(ii) Preference Share Capital	***	***	***	***
(b) Reserves and Surplus				***
2. Non-current Liabilities				
(a) Long-term Borrowings	***	***		***
(b) Long-term Provisions		***		
3. Current Liabilities				
(a) Short-term Borrowings			***	
(b) Trade Payables	***	***	***	***
(c) Other Current Liabilities	2.2		122	322
(d) Short-term Provisions	***	***	***	
Total		***	***	***
II. ASSETS				
1. Non-current Assets			1	
(a) Fixed Assets				
(i) Tangible Assets				
(ii) Intangible Assets	***	***	***	***
(b) Non-current Investments			***	
(c) Long-term Loans and Advances		***	***	
2. Current Assets				
(a) Current Investments	***			
(b) Inventories		***	***	
(c) Trade Receivables				
(d) Cash and Cash Equivalents	***	***	***	***
(e) Short-term Loans and Advances		***	554	1322
(f) Other Current Assets		***		
Total	1222			

Q) From the following income statement of Hyper Co. Ltd, for the year ending 2002 and 2003, prepare the comparative statement.

## Income Statement

(₹ in lakhs)

Particulars	2005	2006
Net Sales	900	1,050
Cost of Goods Sold	650	850
Administrative Expenses	40	40
Selling Expenses	20	20
Net Profit	190	140

## Answer Comparative Income statement of Day Dreaming Company Limited for the year ended 2005 and 2006

Particulars		2005	2006	Absolute Change	Change in %
Net Sales (-) Cost of Goc 3 Sold		900 (650)	1050 (850)	150 (200)	16.67 (30.77)
Gross Profit	(A)	250	200	(50)	(20.0)
(-) Operating Expenses Administrative Expenses Selling Expenses		(40)	(40)		
Operating Profit	(B)	190	140	(50)	(26.31)

## Working Note

Absolute change = Current year – Previous year

Change in  $\% = \frac{\text{Absolute change}}{\text{Previous year}} \times 100$ 

On the basis of the following information extracted from the statement of profit and loss for the year ended 31st March, 2012 and 2013, prepare a comparative statement of profit and loss:

Particulars	Note No.	31st March, 2013	31st March, 2012
Revenue from Operations		30,00,000	20,00,000
Expenses		21,00,000	12,00,000
Other Income		3,60,000	4,00,000
Tax Rate		50%	50%

## Ans.

#### Comparative Statement of Profit and Loss for the years ended 31st March 2013 and 2012

	Particulars	31st March, 2012	31st March, 2013	Absolute Change (Increase or Decrease) (₹)	Percentage Change (Increase or Decrease) (%)
1.	Revenue from Operations (Sales)	20,00,000	30,00,000	10,00,000	50.00
11.	Other Income	4,00,000	3,60,000	(40,000)	(10.00)
111.	Total Revenue (I + II)	24,00,000	33,60,000	9,60,000	40.00
IV.	Expenses	12,00,000	21,00,000	9,00,000	75.00
V.	Profit before Tax (III - IV)	12,00,000	12,60,000	60,000	5.00
VI.	Tax @ 50%	6,00,000	6,30,000	30,000	5.00
VII.	Profit after Tax (V - VI)	6,00,000	6,30,000	30,000	5.00

# Trend analysis

In trend analysis First year amount is consider as base year and compares the amounts of all years  $(2^{nd}, 3^{rd}, 4^{th})$  with that base year to ascertain the trend in percentage.

## Calculate trend percentages by:

Selecting a base year as 100.

- Assigning a weight of 100% to the all amounts appearing on the base-year financial statements.
- Trend % = current year amount/ Base year × 100 to get a percentage.

Q)

M/s. Anuraj Ltd. carrying on business, furnished their position as on 31st March, 2012, 2013 and 2014

#### Balance Sheet as at 31st March

Particulars		2012 (3)	2013 (₹)	2014 (5)
Assets				10
Fixed Assets		30,000	25,500	43,800
Investment		13,000	13,000	18,400
Current Assets		27,000	33,200	18,900
	*** *** *** *** ***	70,000	71,700	81,100
Liabilities				07,100
Share Capital		33,000	31,350	41,000
Debentures		27,000	28,350	9,500
Liabilities for expenses	0,25	10,000	12,000	30,600
100		70,000	71,700	81,100

Prepare Trend Balance Sheet in vertical form.

(Oct. 2012, adapted)

Solution:

ANURAJ LTD.
Trend Analysis of Balance Sheet

		Absolute Amounts			Trend %		
		2012 ₹	2013	2014 ₹	2012	2013	2014
Share Ca	SOURCES OF FUNDS Share Capital Debentures	33,000 27,000	31,350 28,350	The state of the s	100	95.00 105.00	124
	Capital Employed	60,000	59,700	50,500	100	99.50	84
11.	APPLICATION OF FUNDS		-				
1. 2. 3. 4.	Fixed Assets Investments Current Assets Current Liabilities	30,000 13,000 27,000 10,000	25,500 13,000 33,200 12,000	43,800 18,400 18,900 30,600	100 100 100 100	85.00 100.00 123.00 120.00	146 142 70 306
5.	Working Capital (3 - 4)	17,000	21,200	(11,700)	100	125.00	(69)
6.	Capital Employed	60,000	59,700	50,500	100	99.50	84

### *Illustration*

From the following data relating to the assets of Balance Sheet of ABC Ltd., for the period ended March 31, 2011 to March 31, 2014, calculate trend percentages.

(Rs. in Lakhs)

Particulars	2010-11	2011-12	2012-13	2013-14
Cash	100	120	80	140
Debtors	200	250	325	400
Stock	300	400	350	500
Other current assets	50	75	125	150
Land	400	500	500	500
Buildings	800	1000	1200	1500
Plant	1000	1000	1200	1500

#### Solution:

#### **Trend Percentages**

(Rs. in lakhs)

Assets	2010-11	Trend %	2011-12	Trend %	2012-13	Trend %	2013-14	Trend %
Current Assets								
Cash	100	100	120	120	80	80	140	140
Debtors	200	100	250	125	325	162.5	400	200
Stock	300	100	400	133.33	350	116.67	500	166.67
Other Current Assets	50	100	75	150	125	250	150	300
	650	100	845	130	880	135.38	1,190	183.08
Non-current Assets								
Land	400	100	500	125	500	125	500	125
Buildings	800	100	1.000	125	1,200	150	1,500	187.5
Plant	1000	100	1,000	100	1,200	120	1,500	150
	2,200	100	2,500	113.64	2,900	131.82	3,500	159.00
Total Assets	2,850	100	3,345	117.36	3,780	132.63	4,690	164.56
					1			

#### Interpretation:

- The assets have exhibited a continuous increasing trend over the period.
- The current assets increased much faster than the Non-current assets.
- Sundry debtors and other current assets and buildings have shown higher growth.

# Thank you