Essential Financial Ratios You Need to Know





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Your Coaches

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Scott is Co-Founder and Chief Content Officer of CFI Education. Now based in Vancouver, Scott spent a significant portion of his career in London, New York and Hong Kong. Scott has a passion for teaching with over 25 years of experience designing and delivering customized learning solutions for firms in the financial services industry including JP Morgan, Deutsche Bank, Bank of America Merrill Lynch, Credit Suisse, and HSBC, to name but a few.

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Since 2014, Duncan has been focused on designing courses and teaching financial modeling to employees working in accounting, valuation, investment banking, equity research, and private equity. He also has extensive experience providing consulting services on financial modeling to large corporations and institutions.



Financial Analysis Practical Tips

Critical Tips for Effective Financial Analysis



 Gather a minimum of five years of historic financial performance to better identify trends over time



 Make your calculations in Excel transparent so that you can trace from financial statements to ratios



 Need to identify an appropriate peer group, which is harder than it looks, as it is hard to find two companies that are similar



 Keep adjustments of ratios to a minimum, as there is more room for error to creep in



 Averages are typically more academically sound, but in practice, virtually everyone uses closing balances



Peer Group Benchmarking Checklist



Business Characteristics



Finance Characteristics

- ✓ Size
- **Margins**
- ✓ Seasonality/Cyclicality
- ✓ Leverage/Credit rating



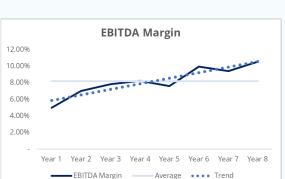
The Benefit of Visualizing Trends - Before

| Profitability and Heturn Hatios | | | | | | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------|
| All figures in USD thousands unless stated | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Average |
| Heturn on Equity Average | 0.41% 8.32% | 4.81% 8.32% | 7.56% 8.32% | 11.59% 8.32% | 6.32% 8.32% | 9.62% 8.32% | 10.08% 8.32% | 16.20% 8.32% | 8.32% |
| Gross Margin Average | 28.21% 33.15% | 31.15% 33.15% | 31.72% 33.15% | 32.72% 33.15% | 33.73% 33.15% | 35.97% 33.15% | 35.26% 33.15% | 36.48% 33.15% | 33.15% |
| ны і DA Margin Average | 5.01% 8.21% | 7.03% 8.21% | 7.84% 8.21% | 8.26% 8.21% | 7.63% 8.21% | 9.98% 8.21% | 9.41% 8.21% | 10.53% 8.21% | 8.21% |



The Benefit of Visualizing Trends - After





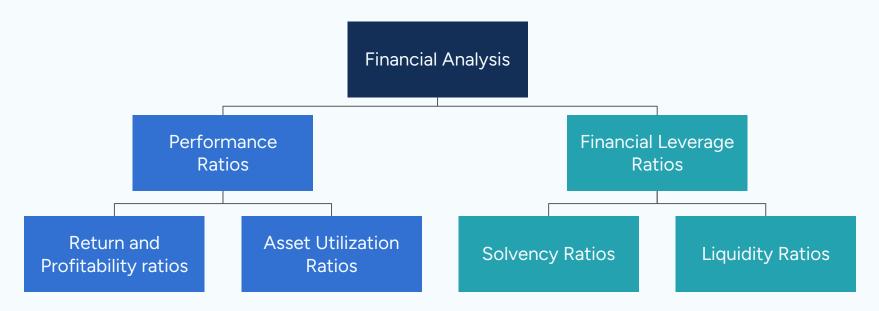






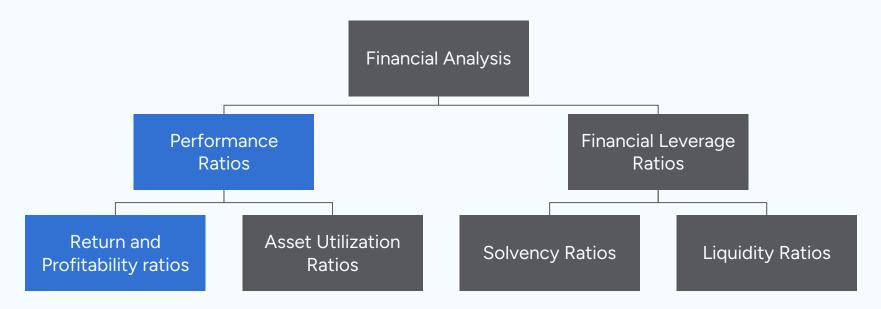
Essential Financial Ratios

Four Main Ratio Categories



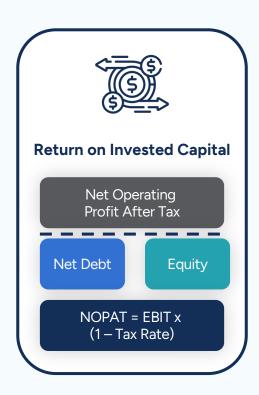


Return and Profitability Ratios





Return Ratios – When to Use ROIC vs ROE



- Best to use when analyzing capital intensive industries funded by significant levels of debt (e.g. oil and gas, mining, large scale manufacturing, etc.).
- More useful the more enterprise value and equity value diverge.
- Analogous to enterprise value.
- Can be used with WACC to identify value creation. ROIC > WACC = value creation.
- This ratio comes under many different names such as:
 - Return on Capital Employed (ROCE)
 - Return on Average Capital Employed (ROACE)
 - Return on Net Assets (RONA)



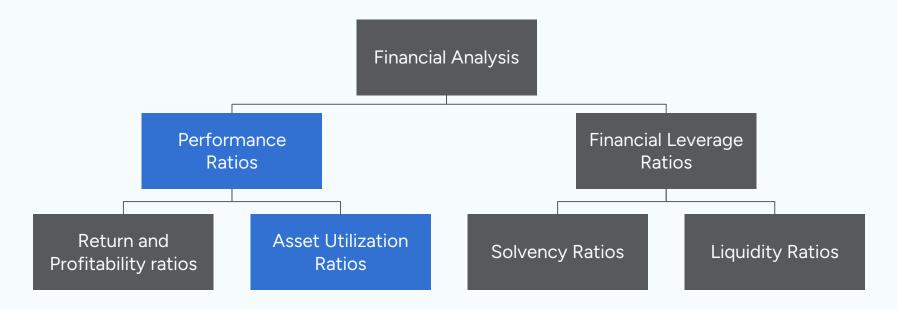
Return Ratios – When Not to Use ROIC vs ROE



- Little benefit to calculating ROIC when there is little difference between enterprise value and equity value (i.e. little to no debt).
- ROIC does not make sense for specific industries such as banking.

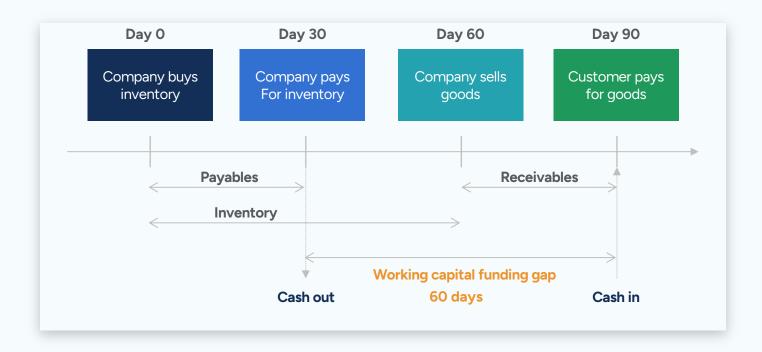


Asset Utilization Ratios



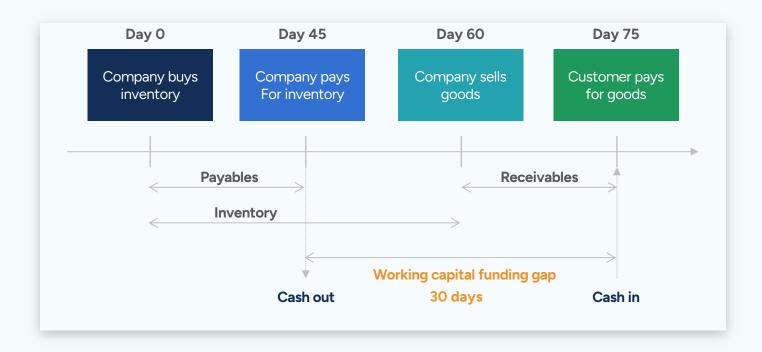


Combining Working Capital Days Ratios



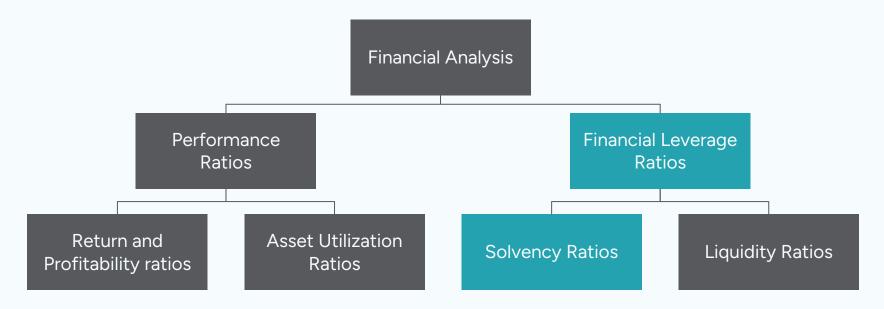


Combining Working Capital Days Ratios



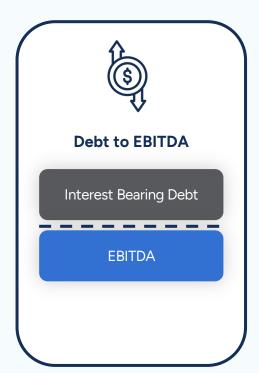


Solvency Ratios





Debt and Net Debt to EBITDA Ratios

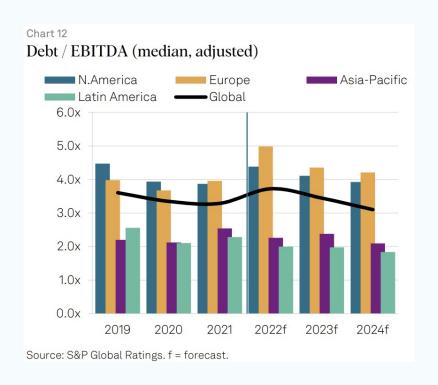




- Leverage ratios most aligned with EV/EBITDA multiple.
- Typically, how leverage is quoted by valuation practitioners and how data providers like S&P report stats.
- Often are used as large syndicated loan covenants.

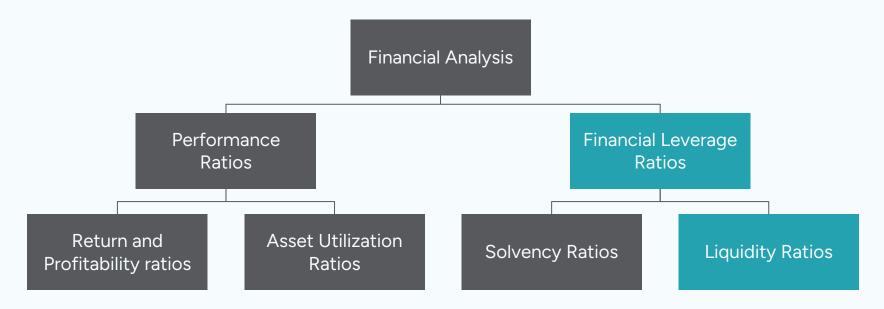


Example of How Solvency is Reported





Liquidity Ratios





EBITDA to Interest Ratio



- The coverage ratio most preferred by valuation practitioners.
- More meaningful than the current and quick ratios. Companies in certain industries can operate successfully with ratios below one (e.g. supermarkets)



ROE's Three Levers – The Power of the Pyramid





A&P



Thank you for attending!







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