

Accounting, Finance & Control

Short Exercises on Accounting-based Indicators

Prof. Emanuele LETTIERI, PhD <u>emanuele.lettieri@polimi.it</u>

You are trying to calculate ROE of Wind Ltd for 2018, but you do not have access to the complete Financial Statements. You were able to gather just the following information:

- Total Assets = 150 mln €
- Total Liabilities = 70 mln €
- Asset Turnover Ratio (ATR) = 2
- Effective tax rate = 35%
- CAPEX Coverage = 0.5
- Net Profit Margin (NPM) = 10%

- Asset Turnover Ratio (ATR) = 2
 Net Profit Margin (NPM) = 10%
- Total Assets = 150 mln € Effective tax rate = 35%
- Total Liabilities = 70 mln €
 CAPEX Coverage = 0.5

$$ROE = \frac{NET\ PROFIT}{EQUITY} \rightarrow ROE = \frac{30}{80} = 37.5\%$$

EQUITY = ASSETS - LIABILITIES = 150 - 70 = 80 mIn€

ATR=
$$2 = \frac{REVENUES}{ASSETS} = \frac{REVENUES}{150}$$
 REVENUES = 300 mln€

NPM=
$$0.1 = \frac{NET\ PROFIT}{REVENUES} = \frac{NET\ PROFIT}{300}$$
 NP = 30 mIn€

You are trying to calculate ROA for Company Alpha in 2019. You do not have access to the complete Financial Statements, but just to the following data:

- Total Assets = 150 mln€
- Total (Current and Non-Current) Liabilities = 80 mln€
- Asset Turnover Ratio (ATR) = 2
- Corporate tax rate = 35%
- Financial Revenues = 2 mln€
- Financial Expenses = 7 mIn€
- ROE = 15%

- Total Assets = 150 mln€
- Total Liabilities = 80 mln€
- Asset Turnover Ratio (ATR) = 2
 ROE = 15%
- Corporate tax rate = 35%

$$ROA = \frac{EBIT}{ASSETS}$$

•	Financia	I Revenues :	= 2 mIn€

- Financial Expenses = 7 mln€

EBIT	
+ FIN REV	+ 2
- FIN EXP	- 7
EBT	
- TAXES	35% EBT
NET PROFIT	65% EBT

- Total Assets = 150 mln€
- Total Liabilities = 80 mln€
- Asset Turnover Ratio (ATR) = 2
 ROE = 15%
- Corporate tax rate = 35%

- Financial Revenues = 2 mln€
- Financial Expenses = 7 mln€

ROE=
$$0.15 = \frac{NP}{EQUITY} = \frac{NP}{(150-80)}$$
 NET PROFIT = 10.5 mln€

$$65\% = \frac{NP}{EBT} = \frac{10.5}{EBT}$$

EBIT	21.15
+ FIN REV	+ 2
- FIN EXP	- 7
EBT	16.15
- TAXES	35% EBT
NET PROFIT	65% EBT

$$ROA = \frac{EBIT}{ASSETS}$$

$$ROA = \frac{21.15}{150} \simeq 14.\%$$

Assuming that only the Balance Sheet of the last fiscal year is available, which of the following accounting-based indicators can be computed?

ROE, Net Working Capital, Quick Ratio

correct

ROE, Quick Ratio, Asset Turnover Ratio

ROE, Current Ratio, CAPEX Coverage

Net Working Capital, Days Sales Outstanding, Equity

None of the above

net profit in equity section!

equity: 1. share capital

2. reserves

3. net profit