

Question 1:

An incomplete 2013 balance sheet for O'Keefe Industries is expressed below together with the following key financial data:

O'Keefe Industries Balance Sheet December 31, 2013

ASSETS		LIABILITIES AND STOCKHOLDERS' EQUITY	
Cash	\$ 30,000	Accounts payable	\$ 120,000
Marketable securities	25,000	Notes payable	
Account receivable		Accruals	20,000
Inventories		Total current liabilities	
Total current assets		Long-term debt	
Net fixed assets		Stockholders' equity	\$ 600,000
Total assets		Total liabilities and stockholders' equity	

- (1) Sales totaled \$1,800,000.
- (2) The gross profit margin was 25%.
- (3) Inventory turnover was 6.0.
- (4) There are 360 days in the year.
- (5) The average collection period was 40 days.
- (6) The current ratio was 1.60.
- (7) The total asset turnover ratio was 1.20.
- (8) The debt ratio was 60%.
- (9) O'Keefe had common stocks outstanding at 150,000 shares with market price of \$5.15.
- (10) EBIT of O'Keefe was \$200,000, which resulted in net income of \$90,000.

1.1 Complete the 2013 balance sheet for O'Keefe Industries by using provided information.

Note: Please fill your answer into the balance sheet above.

1.2 Assume the company's corporate tax was at 40% and cost of capital was 10%, calculate the following measures of shareholders' wealth and provide the meaning.

- A) Market Value Added (MVA) and Market-to-Book ratio
- B) Economic Value Added (EVA)

Question 2:

Win Hom Railroad, a public transportation company, would like to form a complete Balance Sheet and Income Statement for the year end 2013. However, some of the entries were missing. The only available data were financial ratios which could help the finance department to work out.

2013 INCOME STATEMENT (Unit: Million US\$)

Net sales	
Cost of goods sold	
Selling, general, and administrative expenses	10
Depreciation	20
Earnings before interest and taxes (EBIT)	
Interest expense	
Income before tax	
Tax	
Net income	

2013 BALANCE SHEET (Unit: Million US\$)

	2013
Assets	
Cash and marketable securities	
Receivables	
Inventories	
Total current assets	
Net property, plant, and equipment	
Total assets	

Liabilities and shareholders' equity	
Accounts payable	25
Notes payable	30
Total current liabilities	
Long-term debt	
Shareholders' equity	
Total liabilities and shareholders' equity	115

2.1 Complete the 2013 Balance Sheet and Income Statement for Win Hom Railroad by using the financial ratios provided. Assume a 360-day year. Fill your answer into the Balance Sheet and the Income Statement on previous page.

Ratios	2013 Win Hom Railroad
Long-term debt ratio	0.20
Times interest earned	8.00
Current ratio	1.40
Quick ratio	1.00
Cash ratio	0.20
Return on assets	21.30%
Return on equity	66.22%
Inventory turnover	5.00
Average collection period	88.00 days

2.2 Financial Manager of Win Hom Railroad wanted to measure overall performance of the company. She wondered whether the benchmark should be BangChak Hospital, which is a company in health service industry, or its own performance of the previous year. How would you suggest? Why?

Ratios	2013 Win Hom Railroad	2013 BangChak Hospital	2012 Win Hom Railroad
Long-term debt ratio	0.20	0.40	0.30
Times interest earned	8.00	5.00	6.50
Current ratio	1.40	2.00	1.20
Quick ratio	1.00	0.90	0.85
Cash ratio	0.20	0.75	0.25
Return on assets	21.30%	25.00%	20.00%
Return on equity	66.22%	45.00%	50.00%
Inventory turnover	5.00	10.00	3.00
Average collection period	88.00 days	28.00 days	75.00 days

2.3 Summarize the company's overall performance compared with an appropriate benchmark you suggested from (2.2).

Question 3:

The key financial statements of Total Access Communication PLC. (DTAC) and Advanced Info Service PLC. (AIS) for the year ended December 31, 2013, are as follows.

BALANCE SHEET (Million Baht)	DTAC 2013	AIS 2013
Cash & Equivalent	5,472	16,831
Accounts receivable	10,351	10,264
Inventory	1,683	2,865
PP&E-net	15,120	35,922
Other fixed assets	72,428	45,490
Total assets	105,054	111,372
Accounts payable	28,190	11,718
ST debts & current portion	8,296	5,303
Long-term debt	23,164	15,355
Other long-term liabilities	4,029	5,287
Total liabilities	72,334	65,480
Paid-up capital	4,736	2,973
Share premium	23,543	22,372
Retained earnings	2,782	20,403
Shareholder's equity	32,720	45,892
Total Liab.&Shareholders' equity	105,054	111,372

INCOME STATEMENT (Million Baht)	DTAC 2013	AIS 2013
Revenue	94,369	142,783
Cost of sales and services	(65,119)	(81,141)
Gross profit	29,250	61,642
Selling, general, and administration expenses	(13,630)	(14,847)
EBIT	15,620	46,795
Interest expense	(1,270)	(1,002)
Other income/exp.	335	871
EBT	14,685	46,664
Corporate tax	(2,888)	(10,008)
After-tax net profit (loss)	11,797	36,656

3.1 In 2013, DTAC had 2,400 million shares of common stocks outstanding with market price at 105.50 Baht. Assume DTAC's effective corporate tax was at 19.67% and cost of capital was 10%, calculate the following measures of shareholders' wealth of DTAC and provide the meaning.

- A) Market Value Added (MVA)
- B) Economic Value Added (EVA)

3.2 Use the preceding financial statements of DTAC to compute key financial ratios by completing the following table. **(10 Points)**

Ratio	AIS	DTAC
Current ratio	1.7602	
Quick ratio	1.5919	
Inventory turnover ^a	28.3215	
Average collection period ^a	25.8787	
Debt ratio (%)	58.7940	
Time interest earned ratio	46.7016	
Gross profit margin (%)	43.1718	
Net profit margin (%)	25.6725	
Return on total assets (%)	32.9131	
Return on equity (%)	79.8745	

^a Based on a 360-day year.

3.3 Summarize overall financial condition of DTAC by comparing with AIS under each criterion. If you want to invest in either DTAC or AIS, which company should you choose?

Question 4:

SETTRADE reported key financial statements for the year ended December 31, 2017 of major construction companies in Thailand – ITD (ITALIAN-THAI Development PCL) and CK (CH. Karnchang PCL). Summary of Income Statement is as follows.

INCOME STATEMENT (Unit: MB.)	CK	ITD	CK(%)	ITD(%)
Revenues from sale of goods and rendering of services	35,923	55,096	93.18%	98.14%
Other income	2,631	1,043	6.82%	1.86%
Cost of sale of goods and rendering of services	33,088	48,523		
Selling and administrative expenses	2,131	3,011		
<i>Selling expenses</i>	<i>0</i>	<i>58</i>		
<i>Administrative expenses</i>	<i>2,131</i>	<i>2,953</i>		
Other expenses	0	1,141		
EBIT	3,334	3,464		
Finance costs	1,393	2,346	3.61%	4.18%
Income tax expenses	91	437	0.24%	0.78%
Net profit (Loss)	1,851	681		

4.1 Construct the 2017 common-size income statement of CK and ITD by completing the above table in column CK(%) and ITD(%). Compare operating results of the two companies and suggest which factors may cause one better than the other. **(10 Points)**

4.2 One financial analyst formed the table below and would like to conduct the financial ratio analysis. However, she is not sure how to interpret the results. Please finish her task by summarizing overall financial performance of ITD comparing with CK under each criterion. If you want to invest either in ITD or CK, which company would you recommend? **(15 Points)**

Ratio	CK	ITD
Long-term debt ratio	34.46%	23.82%
Times interest earned	0.4177	0.6773
Current ratio	1.1314	1.0620
Quick ratio	0.7580	0.8035
Cash ratio	0.3545	0.0775
Return on assets	2.33%	0.78%
Return on equity	7.88%	5.15%
Inventory turnover	9.80	12.24
Average collection period	51.00	68.99