

Module 13 – Financial Statement Analysis & Valuation, 4th Edition by Easton, McAnally, Sommers & Zhang

Practice Quiz

- Penn Company reports net operating profit after tax (NOPAT) of \$3,306 million in 2013. Its net operating assets at the beginning of 2013 are \$10,215 million and are \$11,137 million at the end of 2013. What are Penn's free cash flows to the firm (FCFF) for 2013?
 - \$3,305 million
 - \$2,441 million
 - \$2,384 million
 - \$5,176 million
- Following are forecasts of Value-Mart Corporation's sales, net operating profit after tax (NOPAT), and net operating assets (NOA) as of January 31, 2013.

(in millions)	Reported 2013	Horizon Period				Terminal Period
		2014	2015	2016	2017	
Sales	\$51,271	\$57,526	\$64,544	\$72,418	\$81,253	\$82,878
NOPAT	2,694	2,876	3,227	3,621	4,063	4,144
NOA	22,429	25,121	28,185	31,624	35,482	36,191

Assuming a terminal period growth rate of 2%, discount rate (WACC) of 7%, shares outstanding of 874.1 million, and net nonoperating obligations (NNO) of \$8,224 million, estimate the value of a share of Value-Mart common stock using the discounted cash flow (DCF) model as of January 31, 2013.

- \$41.50
 - \$43.21
 - \$47.45
 - \$51.26
- Following are forecasts of sales, net operating profit after tax (NOPAT), and net operating assets (NOA) as of December 31, 2013 for Stellar Stores, Inc.

(in millions)	Reported 2013	Horizon Period				Terminal Period
		2014	2015	2016	2017	
Sales	\$37,006	\$44,777	\$54,180	\$65,558	\$79,325	\$80,912
NOPAT	1,292	1,563	1,891	2,288	2,768	2,824
NOA	10,007	102	14,643	17,718	21,439	21,868

Assuming a terminal period growth rate of 2%, a discount rate (WACC) of 8%, common shares outstanding of 814.3 million, and net nonoperating obligations (NNO) of \$1,676 million, estimate the value of a share of Stellar common stock using the discounted cash flow (DCF) model as of December 31, 2013.

- \$23.59
- \$32.95
- \$25.23
- \$31.06

4. Following is the income statement for **3M Company**.

Income Statement			
Year Ended December 31 (millions)	2005	2004	2003
Net sales.....	\$21,167	\$20,011	\$18,232
Operating expenses			
Cost of sales.....	10,381	9,958	9,285
Selling, general and administrative expenses	4,535	4,281	3,994
Research, development and related expenses	1,242	1,194	1,147
Other expense	—	—	93
Total	16,158	15,433	14,519
Operating income.....	5,009	4,578	3,713
Interest expense and income			
Interest expense.....	82	69	84
Interest income.....	(56)	(46)	(28)
Total	26	23	56
Income before income taxes, minority interest and cumulative effect of accounting change	4,983	4,555	3,657
Provision for income taxes.....	1,694	1,503	1,202
Minority interest	55	62	52
Income before cumulative effect of accounting change	3,234	2,990	2,403
Cumulative effect of accounting change	(35)	—	—
Net income.....	\$ 3,199	\$ 2,990	\$ 2,403

Compute net operating profit after tax (NOPAT) for 2005, assuming a federal and state statutory tax rate of 36.3%. (*Hint: Other expense is an operating item for 3M.*)

- \$3,315 million
- \$3,306 million
- \$5,009 million
- \$3,289 million

5. Following are the income statement and balance sheet for **Intel Corporation**.

Income Statement			
Year Ended December 31 (In millions)	2005	2004	2003
Net revenue	\$38,826	\$34,209	\$30,141
Cost of sales	15,777	14,463	13,047
Gross margin	23,049	19,746	17,094
Research and development	5,145	4,778	4,360
Marketing, general and administrative	5,688	4,659	4,278
Impairment of goodwill	—	—	617
Amortization and impairment of acquisition- related intangibles and costs	126	179	301
Purchased in-process research and development	—	—	5
Operating expenses	10,959	9,616	9,561
Operating income	12,090	10,130	7,533
Losses on equity securities, net	(45)	(2)	(283)
Interest and other, net	565	289	192
Income before taxes	12,610	10,417	7,442
Provision for taxes	3,946	2,901	1,801
Net income	<u>\$ 8,664</u>	<u>\$ 7,516</u>	<u>\$ 5,641</u>

Balance Sheet		
December 31 (In millions, except par value)	2005	2004
Assets		
Cash and cash equivalents	\$ 7,324	\$ 8,407
Short-term investments	3,990	5,654
Trading assets	1,458	3,111
Accounts receivable, net of allowance for doubtful accounts of \$64 (\$43 in 2004)	3,914	2,999
Inventories	3,126	2,621
Deferred tax assets	1,149	979
Other current assets	233	287
Total current assets	21,194	24,058

continued

5. *continued*

Balance Sheet		
December 31 (in millions, except par value)	2005	2004
Property, plant and equipment, net	17,111	15,768
Marketable strategic equity securities	537	656
Other long-term investments	4,135	2,563
Goodwill	3,873	3,719
Deferred taxes and other assets	1,464	1,379
Total assets.	<u>\$48,314</u>	<u>\$48,143</u>
Liabilities and stockholders' equity		
Short-term debt	\$ 313	\$ 201
Accounts payable.	2,249	1,943
Accrued compensation and benefits	2,110	1,858
Accrued advertising	1,160	894
Deferred income on shipments to distributors.	632	592
Other accrued liabilities	810	1,355
Income taxes payable	1,960	1,163
Total current liabilities.	<u>9,234</u>	<u>8,006</u>
Long-term debt	2,106	703
Deferred tax liabilities.	703	855
Other long-term liabilities.	89	—
Stockholders' equity		
Preferred stock, \$0.001 par value, 50 shares authorized; none issued	—	—
Common stock, \$0.001 par value, 10,000 shares authorized; 5,919 issued and outstanding (6,253 in 2004) and capital in excess of par value	6,245	6,143
Acquisition-related unearned stock compensation	—	(4)
Accumulated other comprehensive income.	127	152
Retained earnings	29,810	32,288
Total stockholders' equity	<u>36,182</u>	<u>38,579</u>
Total liabilities and stockholders' equity.	<u>\$48,314</u>	<u>\$48,143</u>

Compute Intel's net operating assets (NOA) for year-end 2005.

- \$33,008 million
- \$30,978 million
- \$29,107 million
- \$21,694 million