# Financial Statement Analysis Practice Problem

From textbook: Self Test Problem 3.3 and 3.4. Question and Problems (same for 11th and 12th editions): 1-2,4-8,17,26-27(use 2015(11th) or 2018(12th))

- 1. Andy and April's Shop of Cool and Weird Stuff has net income of \$150,980, a price-earnings ratio of 12.8, and earnings per share of \$0.87. How many shares of stock are outstanding?
- 2. A firm has a debt-equity ratio of 57 percent, a total asset turnover of 1.12, and a profit margin of 4.9 percent. The total equity is \$511,640. What is the amount of the net income?

Use the following Financial Statements for "Galaxy Interiors" to answer the following questions

Galaxy United, Inc.

#### 2012 Income Statement

Net sales	\$614,100	Galaxy United, Inc.						
Less: Cost of goods sold	521,400		2011 and 2012 Balance Sheets					
Less: Depreciation	11,200		<u>2011</u>	<u>2012</u>		<u>2011</u>	<u>2012</u>	
		Cash	\$17,000	\$16,500	Accounts payable	\$128,600	\$134,700	
Earnings before interest and taxes	81,500	Accounts rec.	54,100	56,700	Long-term debt	147,500	135,500	
Less: Interest paid	10,100	Inventory	189,400	186,700	Common stock*	125,000	140,000	
Taxable Income	\$71,400	Sub-total	\$260,500	\$259,900	Retained earnings	120,700	131,800	
		Net fixed assets	261,300	282,100				
Less: Taxes	28,900	Total	<u>\$521,800</u>	\$542,000	Total	<u>\$521,800</u>	\$542,000	
Net income	\$42,500	*The nar value of the common stock is \$1 per share.						

- 3. What is debt-equity ratio? (Use 2012 values)
- 4. What is the cash coverage ratio for 2012?
- 5. What is the return on equity? (Use 2012 values)
- 6. What is the quick ratio for 2012?
- 7. Create a common-size Income statement (vertical)
- 8. Create a common-size Balance sheet (horizontal)

### Answers to Textbook

### 11th edition:

- 1) Current Ratio=1.44 times Quick Ratio=0.58 times
- 2) NI=1,050,000 ROA=8.02% ROE=14.19%
- 4) Inventory Turnover=11.22 times Days' Sales in inventory=35.53 days
- 5) Debt-Equity=1.13 Equity multiplier=2.13
- 6) EPS=\$3.47 DPS=\$1.15 Book Value per share=\$31.18 Market to book=2.05 P/E=18.44 P/S=2.11
- 7) ROE=14.73%
- 8) 0.62
- 17) 2014 and 2015 a)1.44 and 1.51 b) 0.63 and 0.67 c) 0.18 and 0.20 d) 6.66% and 7.46% e) 0.34 and 0.30 (1.34 and 1.30) f) 0.26 and 0.23 (Long term 0.12 and 0.10)
- 26 a) 1.15 b) 0.68 c) 0.42 d) 0.88 e) 8.93 f) 23.09 g) 0.38 h) 0.60 i) 1.60 j) 5.73 k) 7.99 l) 11.94% m) 10.53% n) 16.85%
- 27) Answer listed in 26.

### 12th edition:

- 1) Current Ratio=1.47 times Quick Ratio=0.63 times
- 2) NI=835,000 ROA=6.47% ROE=11.60%
- 4) Inventory Turnover=12.88 times Days' Sales in inventory=28.34 days
- 5) Debt-Equity=0.85 Equity multiplier=1.85
- 6) EPS=\$3.74 DPS=\$1.15 Book Value per share=\$32.94 Market to book= 1.97 P/E=17.40 P/S=1.48
- 7) ROE=16.27%
- 8) 0.40
- 17) 2017 and 2018 a) 1.49 and 1.51 b) 0.64 and 0.68 c) 0.19 and 0.20 d) 6.81% and 7.31% e) 0.32 and 0.31 (1.32 and 1.31) f) 0.25 and 0.24 (Long term 0.12 and 0.11)
- 26 a) 1.30 b) 0.79 c) 0.45 d) 0.81 e) 8.43 f) 18.24 g) 0.36 h) 0.57 i) 1.57 j) 5.22 k) 7.47 l) 12.29% m) 9.91% n) 15.58%
- 27) Answer listed in 26.

## Answer to above problems

- 1) 173,540
- 2) \$44,084
- 3) 0.99
- 4) 9.18
- 5) 16.43 %
- 6) 0.54
- 7) CGS: 84.9% DEP:1.8% EBIT:13.3% Interest:1.6% Taxable Income:11.6% Taxes:4.7% NI:6.9%
- 8) Cash: -2.9% A/R: 4.8% Inventory: -1.4% CA: -0.2% NFA: 8.0% TA:3.9%
- A/P:4.7% LTD:-8.1% CS:12.0% RE:9.2% TLE:3.9%