A CASE

	Industry Average	Actual 2001	Actual 2002
	8		
Current Ratio	1.3	1.0	
Quick Ratio	0.8	0.75	
Average collection Period	23 days	30 days	
Inventory Turnover	21.7	19	
Debt Ratio	64.7%	50%	
Times Interest Earned	4.8	5.5	
Gross Profit Margin	13.6%	12.0%	
Net Profit Margin	1.0%	0.5%	
Return on total assets	2.9%	2.0%	
Return on Equity	8.2%	4.0%	

Dana Dairy Products Key Ratio

Income Statement Dana Dairy Products For the Year Ended December 31, 2002

Sales Revenue	\$100,000
Less: Cost of Goods Sold	87,000
Gross Profits	\$ 13,000
Less: Operating Expenses	11,000
Operating Profits	\$ 2,000
Less: Interest Expense	500
Net Profits Before Taxes	\$ 1,500
Less: Taxes (40%)	600
Net Profits After Taxes	\$ 900

Balance Sheet Dana Dairy Products December 31, 2002

ASSETS		
Cash		\$ 1,000
Accounts Receivable		8,900
Inventories		4,350
Total Current Assets		\$14,250
Gross Fixed Assets	\$35,000	
Less: Accumulated Depreciation	13,250	
Net Fixed Assets		21,750
Total Assets		\$36,000
Liabilities & Stockholders' Equity		
Accounts Payable		\$ 9,000
Accruals		6,675
Total Current Liabilities		\$15,675
Long-term Debts		4,125
Total Liabilities		\$19,800
Common Stock		1,000
Retained Earnings		15,200
Total Stockholders' Equity		\$16,200
Total Liab. & S.E.		\$36,000

- 1. The current ratio for Dana Dairy Products in 2002 is _____
- 2. Since 2001, the liquidity of Dana Dairy Products _____
- 3. The net working capital for Dana Dairy Products in 2002 is ______.
- 4. The inventory turnover for Dana Dairy Products in 2002 is _____.
- 5. The inventory management at Dana Dairy Products ______ since 2001.
- 6. The average collection period for Dana Dairy Products in 2002 is:
- 7. If Dana Dairy Products has credit terms which specify that accounts receivable should be paid in 25 days, the average collection period ______ since 2001.
- 8. Dana Dairy Products has a _____ degree of financial leverage than the industry standard, resulting in _____.
- 9. The debt ratio for Dana Dairy Products in 2002 is
- **10**. Dana Dairy **Products'** gross profit margin is inferior to the industry standard. This may have resulted from
- 11. The gross profit margin and net profit margin for Dana Dairy Products in 2002 are
- 12. The return on total assets for Dana Dairy Products for 2002 is
- 13. The return on equity for Dana Dairy Products for 2002 is
- 14. Using the modified DuPont formula allows the analyst to break Dana Dairy Products return on equity into 3 components: the net profit margin, the total asset turnover, and a measure of leverage (the financial leverage multiplier). Which of the following mathematical expressions represents the modified DuPont formula relative to Dana Dairy Products' 2002 performance?
- 15. As the financial leverage multiplier increases this may result in

Qs:

Answers:

- **1**. 0.91
- 2. has deteriorated
- **3**. **-**\$1,425
- 4. 20
- 5. has improved slightly
- 6. 32 days.
- 7. has deteriorated
- 8. lower; lower return on equity
- 9. 55 percent.
- **10**. the high cost of goods sold.
- **11**. 13 percent and 1.5 percent, respectively.
- 12. 2.5 percent.
- 13. 5.6 percent.
- 14. 5.6(ROE) = 2.5(ROA) × 2.24(Financial leverage multiplier)
- **15**. a decrease in the net profit margin and return on investment, due to the increase in interest expense as debt increases.