# BASIC TRAINING PROGRAM FOR NEW COMMERCIAL JUDGES 

Financial Skill Builder

# USAID FOSTERING AN INVESTMENT AND LENDER-FRIENDLY ENVIRONMENT (FILE) 

## Financial Skill Builder

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## FINANCIAL SKILL BUILDER

## EXERCISE 1.

Coloumns A through E represent the balance sheets of different types of companies. Identify which of the following balance sheets is a manufacturer, wholesaler, retailer, or service company. Use your understanding of working assets to identify each of them. Be prepared to discuss how you chose each answer.

Balance Sheet of Different Company Types (Each component is expressed as a percentage of total assets)

|  | $\mathbf{A}$ | $\mathbf{B}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{E}$ |
| ---: | ---: | ---: | ---: | ---: | ---: |
| ASSETS |  |  |  |  |  |
| Cash | 4.1 | 8.9 | 2.0 | 0.7 | 22.8 |
| Accounts Receivable | 2.1 | 29.9 | 0 | 26.1 | 72.3 |
| Inventory | 77.6 | 51.4 | 0 | 10.9 | 0 |
| Total Current assets | 83.8 | 90.2 | 2.0 | 37.7 | 95.1 |
| Net Fixed Assets | 15.4 | 9.1 | 97.4 | 49.4 | 2.4 |
| Other Noncurrent Assets | 0.8 | 0.7 | 0.6 | 12.9 | 2.5 |
| Total Assets | $\mathbf{1 0 0 . 0}$ | $\mathbf{1 0 0 . 0}$ | $\mathbf{1 0 0 . 0}$ | $\mathbf{1 0 0 . 0}$ | $\mathbf{1 0 0 . 0}$ |
|  |  |  |  |  |  |
| LIABILITIES |  |  |  |  |  |
| Short-term Bank Debt | 3.5 | 10.6 | 0 | 7.2 | 18.4 |
| Accounts Payable | 38.0 | 2.5 | 0.3 | 9.3 | 60.5 |
| Current Maturities | 4.9 | 0 | 3.6 | 8.4 | 0 |
| Accruals | 8.5 | 14.2 | 0 | 11.2 | 2.2 |
| Other Current Liabilities | 0.8 | 2.8 | 0 | 3.8 | 2.5 |
| Total Current Liabilities | 55.7 | 30.1 | 3.9 | 39.9 | 83.6 |
| Long-term Bank Debt | 12.7 | 13.4 | 33.5 | 10.7 | 8.1 |
| Other Long-term debt | 0.3 | 0 | 0 | 0.6 | 2.5 |
| Subordinated debt | 0 | 34.8 | 0 | 0 | 0 |
| Total Liabilities | $\mathbf{6 8 . 7}$ | $\mathbf{7 8 . 3}$ | $\mathbf{3 7 . 4}$ | $\mathbf{5 1 . 2}$ | $\mathbf{9 4 . 2}$ |
|  |  |  |  |  |  |
| Net worth |  |  |  |  |  |
| Common stock | 0.1 | 3.2 |  | 0.2 | 1.4 |
| Retained Earnings | 31.2 | 18.5 | 62.6 | 48.6 | 4.4 |
| Total Net worth | $\mathbf{3 1 . 3}$ | $\mathbf{2 1 . 7}$ | $\mathbf{6 2 . 6}$ | $\mathbf{4 8 . 8}$ | $\mathbf{5 . 8}$ |

## EXERCISE 2.

Place the following income statement and balance sheet accounts in the correct order:

| Total current liabilities | Operating expenses |
| :--- | :--- |
| Long-term debt | Interest expenses |
| Land | Cost of goods sold |
| Common stock | Taxes |
| Vehicles | Net sales |
| Retained earnings | Gross profit |
| Accounts receivable | Operating profit |
| Notes payable | Net profit after tax |
| Notes receivable |  |
| Total fixed assets |  |
| Total assets |  |
| Cash |  |
| Inventory |  |
| Total current assets |  |
| Current maturities of long-term debt |  |
| Total equity |  |
| Buildings |  |
| Total liabilities |  |
| Goodwill |  |
| Accrued expenses |  |


| BALANCE SHEET | INCOME STATEMENT |
| :--- | :--- |
|  |  |

## EXERCISE 3.

"Krovko" is a roofing company that repairs and installs new roofs on commercial buildings. Three years of Balance Sheets and Income Statements for Krovko are presented below.

## BALANCE SHEETS (in thousands of KM)

|  | 2001 | 2002 | 2003 |
| :---: | :---: | :---: | :---: |
| ASSETS |  |  |  |
| 1 Cash | 318 | 626 | 1,526 |
| 2 Accounts receivable | 381 | 758 | 1,044 |
| 3 Inventory | 412 | 166 | 164 |
| 4 Total current assets (1+2+3) | 1,111 | 1,550 | 2,734 |
| 5 Furniture | 185 | 181 | 192 |
| 6 Machinery and equipment | 405 | 437 | 707 |
| 7 Leasehold improvements | 25 | 25 | 25 |
| 8 Transportation equipment | 542 | 763 | 1,046 |
| 9 Gross fixed assets (5+6+7+8) | 1,157 | 1,406 | 1,970 |
| 10 Less: Accum. depreciation | 886 | 973 | 1,213 |
| 11 Total fixed assets - net | 271 | 433 | 757 |
| 12 Investments | 34 | 38 | 42 |
| 13 Prepaid expenses | 28 | 36 | 29 |
| 14 Deposits | 28 | 60 | 68 |
| 15 Acc.rec. employee/stockholder | 6 | 3 | 1 |
| $\begin{aligned} & \text { TOTAL ASSETS } \\ & (4+11+12+13+14+15) \end{aligned}$ | 1,478 | 2,120 | 3,631 |
|  |  |  |  |
| LIABILITIES |  |  |  |
| 1 Accounts payable | 318 | 429 | 701 |
| 2 Profit-sharing plan contribution | 14 | 17 | 77 |
| 3 Accruals | 141 | 250 | 311 |
| 4 Total accrued liabilities (2+3) | 155 | 267 | 388 |
| 5a Total current liabilities (1+4) | 473 | 696 | 1,089 |
| 5b Total Long-term liabilities |  |  |  |
| 6 Total liabilities (5a+5b) | 473 | 696 | 1,089 |
| Net worth |  |  |  |
| 7 Common stock | 40 | 40 | 40 |
| 8 Retained earnings | 965 | 1,384 | 2,502 |
| 9 Net worth ( $7+8$ ) | 1,005 | 1,424 | 2,542 |
| TOTAL LIABILITIES AND <br> NET WORTH (6+9) | 1,478 | 2,120 | 3,631 |

INCOME STATEMENTS (in thousands of KM)

|  | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ |
| :--- | ---: | ---: | ---: |
| Sales | 5,015 | 7,296 | 10,743 |
| Cost of goods sold | 3,527 | 5,163 | 7,348 |
| Gross profit/ revenues | $\mathbf{1 , 4 8 8}$ | $\mathbf{2 , 1 3 3}$ | $\mathbf{3 , 3 9 5}$ |
| Operating expenses: | 1,015 |  |  |
| General and admin.expense | 230 | 1,148 | 1,504 |
| Officers compensation | 99 | 345 | 455 |
| Rent expense | 2 | 101 | 106 |
| Bad debt expense | 15 | 0 | 0 |
| Profit-sharing contribution | 95 | 17 | 77 |
| Depreciation | $\mathbf{3 2}$ | 159 | 267 |
| Operating income (Gross profit <br> minus Operating expanses) |  | $\mathbf{3 6 3}$ | $\mathbf{9 8 6}$ |
|  |  |  |  |
| - Interest expense | 8 |  |  |
| + Interest income | 3 | 7 | 3 |
| + Other income | 135 | 8 | 29 |
| Net profit before tax | $\mathbf{1 6 2}$ | 55 | 106 |
| Tax | 0 | $\mathbf{4 1 9}$ | $\mathbf{1 , 1 1 8}$ |
| Net profit after tax | $\mathbf{1 6 2}$ | 0 | 0 |

a) Spread and common-size three years of the balance sheet using the following form:

| BALANCE SHEET | 2001 <br> Amount | \% | 2002 <br> Amount | \% | 2003 <br> Amount | \% |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| ASSETS |  |  |  |  |  |  |
| Cash |  |  |  |  |  |  |
| Accounts receivable |  |  |  |  |  |  |
| Inventory |  |  |  |  |  |  |
| Other current assets |  |  |  |  |  |  |
| Total current assets |  |  |  |  |  |  |
| Land |  |  |  |  |  |  |
| Buildings |  |  |  |  |  |  |
| Equipment |  |  |  |  |  |  |
| Other fixed assets |  |  |  |  |  |  |
| Depreciation |  |  |  |  |  |  |
| Net fixed assets |  |  |  |  |  |  |
| Prepaid expenses |  | 100 |  |  |  |  |
| Investments |  |  |  | 100 |  |  |
| Deposits |  |  |  |  |  |  |
| Acc. Rec. employee |  |  |  |  |  |  |
| TOTAL ASSETS |  |  |  |  |  |  |
|  |  |  |  |  |  |  |


| LIABILITIES |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Notes payable shortterm |  |  |  |  |  |  |
| Accounts payable |  |  |  |  |  |  |
| Accrued expenses |  |  |  |  |  |  |
| Curr. maturities LTdebt |  |  |  |  |  |  |
| Other current liabilities |  |  |  |  |  |  |
| Taxes payable |  |  |  |  |  |  |
| Total current liabilities |  |  |  |  |  |  |
| Long-term debt bank |  |  |  |  |  |  |
| Subordinate debt |  |  |  |  |  |  |
| Other long-term debt |  |  |  |  |  |  |
| Total liabilities |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Net worth |  |  |  |  |  |  |
| Common stock |  |  |  |  |  |  |
| Retained earnings |  |  |  |  |  |  |
| Paid-in capital |  |  |  |  |  |  |
| Treasury stock |  |  |  |  |  |  |
| Total equity |  |  |  |  |  |  |

b) Spread and common-size the income statement using the following form:

| INCOME <br> STATEMENT | $\mathbf{2 0 0 1}$ | \% | $\mathbf{2 0 0 2}$ | \% | $\mathbf{2 0 0 3}$ | \% |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Net sales |  | 100 |  | 100 |  | 100 |
| Cost of goods sold |  |  |  |  |  |  |
| Gross profit |  |  |  |  |  |  |
| Operating expenses |  |  |  |  |  |  |
| Operating profit (loss) |  |  |  |  |  |  |
| Other income |  |  |  |  |  |  |
| Other expense |  |  |  |  |  |  |
| Interest expense |  |  |  |  |  |  |
| Net profit before tax |  |  |  |  |  |  |
| Taxes |  |  |  |  |  |  |
| Net profit after tax |  |  |  |  |  |  |

c) Using Krovko’s Balance Sheet and Income Statement calculate the direct method cash flow using the worksheet on the following page.

## CASH FLOW - DIRECT METHOD

| Sales -net |  |
| :--- | :--- |
| (Increase) decrease in receivables |  |
| Cash from sales |  |
| (Cost of goods sold) $^{1}$ |  |
| (Increase) decrease in inventories $^{\text {Increase (decrease) in payables }}$ |  |
| Cash production costs |  |
| Gross cash profit |  |
| (Selling, general and administrative expense) $^{1}$ |  |
| (Increase) decrease in prepaids $^{\text {Increase (decrease) in accruals }}$ |  |
| Cash operating expense |  |
| Cash after operations |  |
| Miscellaneous cash income ${ }^{2}$ |  |
| Income taxes paid |  |
| Net cash after operations |  |
| Interest expense |  |
| Dividends paid/ owner withdrawals |  |
| Financing costs |  |
| Net cash income |  |
| Current portion long-term debt ${ }^{4}$ |  |
| Cash after debt amortization |  |
| Capital expenditures |  |
| Long-term investments/ intangibles |  |
| Financial surplus (requirements) |  |
| Increase (decrease) short-term debt |  |
| Increase (decrease) long-term debt ${ }^{6}$ |  |
| Increase (decrease) equity |  |
| Total external financing |  |
| Cash after financing |  |
| Actual change in cash |  |

[^0]
## EXERCISE 4.

Enter the amount of change in KM in the Amount column and indicate whether the change is a source of or a use of cash in the space provided.

| KM (000s omitted) | 2001 | 2002 | Amount | Type |
| :--- | ---: | ---: | ---: | :---: |
| Accounts receivable | 250 | 200 |  |  |
| Inventory | 150 | 200 |  |  |
| Prepaid expenses | 25 | 30 |  |  |
| Equipment | 300 | 350 |  |  |
| Other current liabilities | 90 | 120 |  |  |
| Notes payable-banks | 300 | 250 |  |  |
| Accounts payable | 140 | 190 |  |  |
| Accrued expenses | 80 | 70 |  |  |
| Long-term debt | 200 | 150 |  |  |
| Common stock | 100 | 120 |  |  |

## EXERCISE 5.

Based on provided Balance Sheets and Income Statements for "Fruit \& Vegetable" whole trade company, please make Cash Flow Statement (Indirect Method).

BALANCE SHEET (000 KM)

|  | 2000 | 20001 |
| :---: | :---: | :---: |
| ASSETS |  |  |
| Cash | 46 | 52 |
| Accounts Receivable | 40 | 46 |
| Inventory | 100 | 145 |
| Prepaid expenses | 80 | 80 |
| Other Current Assets | 74 | 79 |
| Total Current assets | 340 | 402 |
|  |  |  |
| Gross Fixed Assets | 640 | 784 |
| Less: Depreciation | (296) | (338) |
| Net Fixed Assets | 344 | 446 |
|  |  |  |
| TOTAL ASSETS | 684 | 848 |
|  |  |  |
| LIABILITIES |  |  |
| Short Term Debt | 40 | 96 |
| Payables | 140 | 165 |
| Accrued Expenses | 58 | 70 |
| Total Current Liabilities | 238 | 331 |
|  |  |  |
| Long Term Liabilities | 70 | 75 |
| TOTAL LIABILITIES | 308 | 406 |
|  |  |  |
| Common Stock | 60 | 60 |
| Retained Earning | 316 | 382 |
| TOTAL EQUITY | 376 | 442 |
| TOTAL LIAB.\& EQUITY | 684 | 848 |

## INCOME STATEMENT (000 KM)

|  | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 0 1}$ |
| :---: | ---: | ---: |
| SALES | $\mathbf{4 , 8 0 0}$ | $\mathbf{5 , 2 3 6}$ |
| Cost of goods sold | 3,672 | 4,028 |
| GROSS PROFIT | $\mathbf{1 , 1 2 8}$ | $\mathbf{1 , 2 0 8}$ |
| OPERATING EXPENSES |  |  |
| Variable costs |  |  |
| Salaries | 348 |  |
| Vehicle expenses | 42 | 381 |


| Warehouse expenses | 40 | 46 |
| :---: | ---: | ---: |
| Office supply | 14 | 12 |
| Acc.\& legal services | 8 | 6 |
| Utilities | 10 | 12 |
| Advertising | 12 | 18 |
| Sales and promotion | 52 | 58 |
| Packaging costs | 144 | 158 |
| Uncollectible A/R | 48 | 52 |
| Damaged goods | 96 | 105 |
|  |  |  |
| Fixed costs | 36 | 36 |
| Lease | 36 | 42 |
| Depreciation | 14 | 16 |
| Insurance | 34 | 50 |
| Tax on salaries | 60 | 66 |
| Pension Fund | 6 | 6 |
| Regist. \& permits | 14 | 16 |
| Interest | $\mathbf{1 , 0 1 4}$ | $\mathbf{1 , 1 2 6}$ |
| TOTAL OPER.EXPENSES | $\mathbf{1 1 4}$ | $\mathbf{8 2}$ |
| INCOME BEFORE TAX | 30 | 16 |
| Tax on income | $\mathbf{8 4}$ | $\mathbf{6 6}$ |
| NET INCOME |  |  |

## CASH FLOW STATEMENT (Indirect Method)

| 1 | Net income after tax |  |
| :--- | :--- | :--- |
| 2 | Depreciation |  |
| 3 | +/- changes on Accounts Receivable |  |
| 4 | +/- changes in Inventory |  |
| 5 | +/- changes on other Current Assets <br> Account |  |
| 6 | +/- changes on Accounts Payable |  |
| 7 | +/- changes on Accrued Expenses |  |
| 8 | +/- changes on Accrued and delayed <br> taxes on income |  |
| 9 | +/- changes on other Current Liabilities <br> Accounts |  |
| 10 | +/- changes on other Noncurrent <br> Liabilities |  |
| 11 | Operating funds flows (Operating <br> Cash Flow) |  |
| 12 | +/- changes on Securities Account |  |
| 13 | +/- changes in Long Term Investment |  |
| 14 | +/- changes in Gross Fixed Assets |  |
| 15 | Non expected profit (loss) |  |
| 16 | Intangible and Other Assets |  |
| 17 | Investing funds flows |  |


| 18 | Cash flow before Financing Activities <br> (row 11 + row 17) |  |
| :--- | :--- | :--- |
| 19 | + +- changes in Short Term Loan |  |
| 20 | + - changes in Long Term Loan |  |
| 21 | +/- changes in Subordinated Loan |  |
| 22 | +/- changes in Capital |  |
| 23 | Dividends paid |  |
| 24 | Adjustments on Retained Earning <br> Account |  |
| 25 | Other Interest |  |
| 26 | Financing funds flows |  |
| 27 | TOTAL CASH FLOW (row 11+ row <br> 17 + row 26) |  |
| 28 | Beginning Cash |  |
| 29 | Plus Operating cash flow (row 11) |  |
| 30 | Investing cash flow (row 17) |  |
| 31 | Financing cash flow (row 26) |  |
| 32 | Ending Cash |  |

## EXERCISE 6.

Use the information on one manufacturing company to calculate the ratios and answer the following questions. Calculate the information for both years.

| (000s omitted) KM | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ |
| :--- | :---: | ---: |
| Sales | 8,257 | 9,783 |
| Gross profit | 2,252 | 2,682 |
| Operating profit | 1,063 | 1,219 |
| Interest expense | 0 | 0 |
| Net income | 1,079 | 1,173 |
| Dividends | 635 | 484 |
|  |  |  |
| Cash |  |  |
| Accounts receivable (net) | 660 | 832 |
| Inventory | 669 | 753 |
| Net fixed assets | 1,280 | 906 |
| Prepaid expenses | 101 | 1,737 |
| Total assets | 3,570 | 4,283 |
| Accounts payable | 234 | 267 |
| Accrued expenses | 171 | 163 |
| Net worth | 3,165 | 3,853 |

Depreciation expense was KM 354 and KM 206 respectively for the years 2001 and 2002.

1. What is the company's gross margin?
2. What is the cost of goods sold?
3. What is the return-on-sales ratio?
4. What is the return-on-equity ratio?
5. What is the days accounts receivable ratio?
6. What is the days inventory ratio?
7. What is the days accounts payable?
8. What is the quick ratio?
9. What is the current ratio?
10. What is debt-to-worth ratio?
11. What is the dividend payout ratio?

## ANSWERS

## EXERCISE 1.

$($ Retailer $=\mathbf{A}$, Wholesaler $=\mathbf{B}$, Service $=\mathbf{C}$ and E, Manufacturer $=\mathbf{D})$

## EXERCISE 2.

| BALANCE SHEET | INCOME STATEMENT |
| :--- | :--- |
| Cash | Net sales |
| Accounts receivable | Cost of goods sold |
| Inventory | Gross profit |
| Total current assets | Operating expenses |
| Land | Operating profit |
| Buildings | Interest expense |
| Vehicles | Taxes |
| Total fixed assets | Net profit after tax |
| Goodwill |  |
| Notes receivable |  |
| TOTAL ASSETS |  |
| Notes payable |  |
| Accrued expenses |  |
| Current maturities of long-term debt |  |
| Total current liabilities |  |
| Long-term debt |  |
| Total Liabilities |  |
| Common stock |  |
| Retained earnings |  |
| Total equity |  |
|  |  |

## EXERCISE 3.

a) Common-sized Balance Sheet

| BALANCE SHEET | $\begin{gathered} 2001 \\ \text { Amount } \end{gathered}$ | \% | $\begin{gathered} 2002 \\ \text { Amount } \end{gathered}$ | \% | $\begin{gathered} 2003 \\ \text { Amount } \end{gathered}$ | \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ASSETS |  |  |  |  |  |  |
| Cash | 318 | 21.5 | 626 | 29.5 | 1,526 | 42.0 |
| Accounts receivable | 381 | 25.8 | 758 | 35.8 | 1,044 | 28.8 |
| Inventory | 412 | 27.9 | 166 | 7.8 | 164 | 4.5 |
| Other current assets | - |  | - |  | - |  |
| Total current assets | 1,111 | 75.2 | 1,550 | 73.1 | 2,734 | 75.3 |
| Land |  |  |  |  |  |  |
| Buildings |  |  |  |  |  |  |
| Equipment | 1,132 | 76.6 | 1,381 | 65.1 | 1,945 | 53.6 |
| Other fixed assets | 25 | 1.7 | 25 | 1.2 | 25 | 0.7 |
| Depreciation | 886 | 59.9 | 973 | 45.9 | 1,213 | 33.4 |
| Net fixed assets | 271 | 18.3 | 433 | 20.4 | 757 | 20.8 |
| Prepaid expenses | 28 | 1.9 | 36 | 1.7 | 29 | 0.8 |
| Investments | 34 | 2.3 | 38 | 1.8 | 42 | 1.2 |
| Deposits | 28 | 1.9 | 60 | 2.8 | 68 | 1.9 |
| Acc. Rec. employee | 6 | 0.4 | 3 | 0.1 | 1 | 0.03 |
| TOTAL ASSETS | 1,478 | 100 | 2,120 | 100 | 3,631 | 100 |
|  |  |  |  |  |  |  |
| LIABILITIES |  |  |  |  |  |  |
| Notes payable shortterm |  |  |  |  |  |  |
| Accounts payable | 318 | 21.5 | 429 | 20.2 | 701 | 19.3 |
| Accrued expenses | 155 | 10.5 | 267 | 12.6 | 388 | 10.7 |
| Curr. maturities LTdebt |  |  |  |  |  |  |
| Other current liabilities |  |  |  |  |  |  |
| Taxes payable |  |  |  |  |  |  |
| Total current liabilities | 473 | 32.0 | 696 | 32.8 | 1,089 | 29.9 |
| Long-term debt bank |  |  |  |  |  |  |
| Subordinate debt |  |  |  |  |  |  |
| Other long-term debt |  |  |  |  |  |  |
| Total liabilities | 473 | 32.0 | 696 | 32.8 | 1,089 | 29.9 |
|  |  |  |  |  |  |  |
| Net worth | 40 | 2.7 | 40 | 1.9 | 40 | 1.1 |
| Common stock |  |  |  |  |  |  |
| Retained earnings | 965 | 65.29 | 1,384 | 65.3 | 2,502 | 68.9 |
| Paid-in capital |  |  |  |  |  |  |
| Treasury stock |  |  |  |  |  |  |
| Total equity | 1,005 | 67.99 | 1,424 | 67.2 | 2,542 | 70.0 |

b) Common-sized Income Statement

| INCOME <br> STATEMENT | $\mathbf{2 0 0 1}$ | $\mathbf{\%}$ | $\mathbf{2 0 0 2}$ | $\mathbf{\%}$ | $\mathbf{2 0 0 3}$ | $\mathbf{\%}$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Net sales | 5,015 | 100 | 7,296 | 100 | 10,743 | 100 |
| Cost of goods sold | 3,527 | 70 | 5,163 | 71 | 7,348 | 68 |
| Gross profit | $\mathbf{1 , 4 8 8}$ | $\mathbf{3 0}$ | $\mathbf{2 , 1 3 3}$ | $\mathbf{2 9}$ | $\mathbf{3 , 3 9 5}$ | $\mathbf{3 2}$ |
| Operating expenses | 1,456 | 29 | 1,770 | 24 | 2,409 | 22 |
| Operating profit (loss) | $\mathbf{3 2}$ | $\mathbf{0 . 6}$ | $\mathbf{3 6 3}$ | $\mathbf{5}$ | $\mathbf{9 8 6}$ | $\mathbf{9}$ |
| Other income | 135 | 2.7 | 55 | 0.8 | 106 | 1.0 |
| Other expense |  |  |  |  |  |  |
| Interest expense | 8 | 0.2 | 7 | 0.09 | 3 | 0.03 |
| Net profit before tax | $\mathbf{1 6 2}$ | $\mathbf{3 . 2}$ | $\mathbf{4 1 9}$ | $\mathbf{5 . 7}$ | $\mathbf{1 , 1 1 8}$ | $\mathbf{1 0 . 4}$ |
| Taxes | - |  | - |  | - |  |
| Net profit after tax | $\mathbf{1 6 2}$ | $\mathbf{3 . 2}$ | $\mathbf{4 1 9}$ | $\mathbf{5 . 7}$ | $\mathbf{1 , 1 1 8}$ | $\mathbf{1 0 . 4}$ |

c) CASH FLOW - DIRECT METHOD (KM)

| Sales -net | 10,743 |
| :---: | :---: |
| (Increase) decrease in receivables | (286) |
| Cash from sales | 10,457 |
| (Cost of goods sold) ${ }^{1}$ | $(7,348)$ |
| (Increase) decrease in inventories | 2 |
| Increase (decrease) in payables | 272 |
| Cash production costs | $(7,074)$ |
| Gross cash profit | 3,383 |
| (Selling, general and administrative expense) ${ }^{T}$ | $(2,142)$ |
| (Increase) decrease in prepaids | 7 |
| Increase (decrease) in accruals | 121 |
| Cash operating expense | $(2,014)$ |
| Cash after operations | 1,369 |
| Miscellaneous cash income ${ }^{2}$ (106+29-8) | 127 |
| Income taxes paid ${ }^{3}$ | 0 |
| Net cash after operations | 1,496 |
| Interest expense | (3) |
| Dividends paid/ owner withdrawals | 0 |
| Financing costs | 0 |
| Net cash income | 1,493 |
| Current portion long-term debt ${ }^{4}$ | 0 |
| Cash after debt amortization | 1,493 |
| Capital expenditures ${ }^{5}$ (433-267-757) | (591) |
| Long-term investments/ intangibles | (10) |
| Financial surplus (requirements) | 900 |
| Increase (decrease) short-term debt |  |
| Increase (decrease) long-term debt ${ }^{6}$ |  |
| Increase (decrease) equity ${ }^{7}$ |  |
| Total external financing |  |
| Cash after financing | 900 |
| Actual change in cash | 900 |

## EXERCISE 4.

| KM (000s omitted) | 2001 | 2002 | Amount | Type |
| :--- | ---: | ---: | ---: | :--- |
| Accounts receivable | 250 | 200 | -50 | Source of cash |
| Inventory | 150 | 200 | +50 | Use of cash |
| Prepaid expenses | 25 | 30 | +5 | Use of cash |
| Equipment | 300 | 350 | +50 | Use of cash |
| Other current liabilities | 90 | 120 | +30 | Source of cash |
| Notes payable-banks | 300 | 250 | -50 | Use of cash |
| Accounts payable | 140 | 190 | +50 | Source of cash |
| Accrued expenses | 80 | 70 | -10 | Use of cash |
| Long-term debt | 200 | 150 | -50 | Use of cash |
| Common stock | 100 | 120 | +20 | Source of cash |

## EXERCISE 5.

| 1 | Net income after tax | 66 |
| :---: | :---: | :---: |
| 2 | Depreciation | 42 |
| 3 | +/- changes on Accounts Receivable | -6 |
| 4 | +/- changes in Inventory | -45 |
| 5 | +/- changes on other Current Assets Account | -5 |
| 6 | +/- changes on Accounts Payable | 25 |
| 7 | +/- changes on Accrued Expenses | 12 |
| 8 | +/- changes on Accrued and delayed taxes on income |  |
| 9 | +/- changes on other Current Liabilities Accounts |  |
| 10 | +/- changes on other Noncurrent Liabilities |  |
| 11 | Operating funds flows (Operating Cash Flow) | 89 |
| 12 | +/- changes on Securities Account |  |
| 13 | +/- changes in Long Term Investment |  |
| 14 | +/- changes in Gross Fixed Assets | -144 |
| 15 | Non expected profit (loss) |  |
| 16 | Intangible and Other Assets |  |
| 17 | Investing funds flows | -144 |
| 18 | Cash flow before Financing Activities (row 11 + row 17) | -55 |
| 19 | +/- changes in Short Term Loan | 56 |
| 20 | +/- changes in Long Term Loan | 5 |
| 21 | +/- changes in Subordinated Loan |  |
| 22 | +/- changes in Capital |  |
| 23 | Dividends paid |  |
| 24 | Adjustments on Retained Earning Account |  |
| 25 | Other Interest |  |


| 26 | Financing funds flows | $\mathbf{6 1}$ |
| :--- | :--- | ---: |
| 27 | TOTAL CASH FLOW (row 11+ row <br> 17 + row 26) | $\mathbf{6}$ |
| 28 | Beginning Cash | 46 |
| 29 | Plus Operating cash flow (row 11) | 89 |
| 30 | Investing cash flow (row 17) | -144 |
| 31 | Financing cash flow (row 26) | 61 |
| 32 | Ending Cash | 52 |

## EXERCISE 6.

1. What is the company's gross margin?
2. What is the cost of goods sold?(000 omitted)
3. What is the return-on-sales ratio?
4. What is the return-on-equity ratio?
5. What is the days accounts receivable ratio?
6. What is the days inventory ratio?
7. What is the days accounts payable?
8. What is the quick ratio?
9. What is the current ratio?
10. What is debt-to-worth ratio?
11. What is the dividend payout ratio?
27.27\%
27.41\%

6,005
13.07\%
34.09\%

29 days
41 days
14 days
3.75
5.4
0.13

59\%
0.11
0.11

41\%


[^0]:    ( ) Indicates decline in cash
    ${ }^{1}$ Net of depreciation
    ${ }^{2}$ Other income- other expense $+/$ - change or other current assets/liabilities
    ${ }^{3}$ Tax provision +/- change in deferred tax asset, accrued income taxes payable, and deferred taxes payable
    ${ }^{4}$ Previous year's current maturities long-term debt
    ${ }^{5}$ Change in net fixed assets plus depreciation
    ${ }^{6}$ Change in long-term debt plus this year's current maturities
    ${ }^{7}$ Common, preferred, treasury stock only

