Income statement:

	\$ Millions
Net sales	\$170.00
Cost of goods sold	130.00
Selling, general, & administrative expenses	10.00
Depreciation	<u>20.00</u>
EBIT	10.00
Interest expense	1.25
Income before tax	8.75
Tax	3.0625
Net income	\$5.6875

Balance sheet:

	\$ Millions	
	This Year	Last Year
Assets		
Cash and marketable securities	\$ 11	\$ 20
Receivables	44	34
Inventories	22	<u>26</u>
Total current assets	77	80
Net property, plant, equipment	<u>38</u>	<u>25</u>
Total assets	\$115	\$105
Liabilities & shareholders' equity		
Accounts payable	\$ 25	\$ 20
Notes payable	30	<u>35</u>
Total current liabilities	55	55
Long-term debt	24	20
Shareholders' equity	<u>36</u>	30
Total liabilities &		
shareholders' equity	\$115	\$105

Solution procedure:

- 1. Total current liabilities = 25 + 30 = 55
- 2. Total current assets = $55 \times 1.4 = 77$
- 3. Cash = $55 \times 0.2 = 11$
- 4. Accounts receivable + cash = $55 \times 1.0 = 55$
- 5. Accounts receivable = $55 \cosh = 55 11 = 44$
- 6. Inventories = 77 11 44 = 22
- 7. Total assets = total liabilities and shareholders' equity = 115
- 8. Net property, plant, equipment = 115 77 = 38

- 9. Sales = $(365/\text{avg. collection period}) \times \text{beginning receivables}$ = $(365/73) \times 34 = 170$
- 10. Cost of goods sold = inventory turnover \times beginning inventory = $5.0 \times 26 = 130$
- 11. EBIT = 170 130 10 20 = 10
- 12. Interest = EBIT/times interest earned = 10/8 = 1.25
- 13. Tax = (EBIT interest) \times 0.35 = (10 1.25) \times 0.35 = 3.0625
- 14. Net income = EBIT interest tax = 10 1.25 3.0625 = 5.6875
- 15. LT debt = LT debt ratio \times (total assets current liabilities) = $0.4 \times (115 55) = 0.4 \times 60 = 24$
- 16. Shareholders' equity = 60 24 = 36