Accounting

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3rd Edition

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Introduction to accounting solutions manual

This manual contains solutions to even-numbered questions, except 6.2, 6.4 and 6.6 which appear in the main text.

(a)	Balance sheet of John's	business, 1 April	20X1		QUESTION 2.2
		£		£	
	Cash at bank	4,000	Capital	4,000	
(b)	Balance sheet of John's	business, 2 April	20X1		
		£		£	
	Cash at bank	4,600	Capital	4,000	
			Loan from John's father	600	
		4,600		4,600	
(c)	Balance sheet of John's l	ousiness, 4 April	20X1		
		£		£	
	Cash at bank	4,600	Capital	4,000	
	Cash-in-hand	150	Loan from John's father	600	
			Loan from Peter	150	
		4,750		4,750	

(a)	Balance sheet of Jeff's business	s, 2 October	r 20X0		QUESTION 2.4
		£		£	
	Machine	2,200	Capital	5,300	
	Stock (£2,870 − £120 − £24	0) 2,510	Add: Profit (£80 + £75)	155	
	Debtors (£800 + £315)	1,115		5,455	
	Bank (£120 + £200)	320	Trade creditors	690	
		6,145		6,145	
(b)	Balance sheet of Jeff's busines	ss, 3 Octob	er 20X0		
		£		£	
	Machinery	2,200	Capital	5,455	
			Trade creditors		
	Stock (£2,510 + £190)	2,700	(£690 + £190)	880	
	Debtors (£1,115 – £150)	965			
	Bank (£320 + £150)	470			
	_	6,335		6,335	
(c)	Balance sheet of Jeff's busines	ss, 4 Octobe	er 20X0		
		£		£	
	Machines (£2,200 + £600)	2,800	Capital	5,455	
			Trade creditors		
	Stock	2,700	(£880 – £75)	805	
	Debtors	965	Bank overdraft		
			(£470 - £75 - £600)	205	
		6,465		6,465	

QUESTION 2.6	Balance sheet at 31 Decemb	er 20XI					
		Α	В	С	D	E	F
	Sources of finance	£	£	£	£	£	£
	Capital at 1 January 20X1	2,500	2,000	3,000	4,000	3,800	7,400
	Add: Profit	1,000	3,200	1,400	5,700	2,300	7,000
	Less: Drawing	(800)	(3,000)	(1,000)	(4,900)	(2,500)	(4,500)
		2,700	2,200	3,400	4,800	3,600	9,900
	Current liabilities	750	400	600	1,300	1,700	2,100
		3,450	2,600	4,000	6,100	5,300	12,000
	Assets	£	£	£	£	£	£
	Fixed assets	1,800	1,750	2,800	4,200	3,700	8,500
	Current assets	1,650	850	1,200	1,900	1,600	3,500
		3,450	2,600	4,000	6,100	5,300	12,000

QUESTION 2.8 Current liabilities: 4 and 9. Current assets: 2 and 7. Fixed assets: 1 and 3. Items not indicated:

- *Capital investment.* This is reported in the capital section, i.e. the first item on the sources of finance side of the balance sheet.
- *Pearl necklace and gold wristwatch.* These are the personal belongings of Mrs Greasy and must be excluded from the balance sheet.
- *Loan.* This is a non-current liability and is reported between the capital and current liability sections of the balance sheet.
- *Shop.* This must be excluded from the balance sheet since it belongs to the property company.

QUESTION 3.2 (a)	Calculation of capit	al				
	Statement of assets	Statement of assets, liabilities and capital at 31 December				
		20)	<i>(</i> 3	2	20X4	
		£	£	£	£	
	Gross assets					
	Fixed assets		9,000		12,144 WI	
	Stocks		2,650		3,710	
	Trade debtors		5,200		5,600	
	Bank balance				50_	
			16,850		21,504	
	Less: Liabilities					
	Trade creditors	1,710		1,210		
	Bank overdraft	360	2,070	_	1,210	
	Capital		14,780		20,294	

			£		
	Calculation of profit		e.		
	Closing capital		20,294		
	Less: Opening capital		14,780		
	Increase in capital	-	5,514		
	Add: Drawings		8,100 W2	2	
	Less: Capital introduc	ced	(600)		
	Profit	-	13,014		
	W1 £9,000 + £3,14	44 = £12,144			
	W2 (£150 \times 52) +	£300 = £8,100			
(b)	Balance sheet at 31	December 20X4			
		£	£		
	Fixed assets		12,144		
	Current assets:				
	Stock	3,710			
	Trade debtors	5,600			
	Bank balance	50			
		9,360			
	Current liabilities;				
	Trade creditors	(1,210)			
			8,150		
			20,294		
	Capital				
	Opening capital			14,780	
	Additional capital			600	
	Add: Net profit		13,014		
	Less: Drawings: Cash		(7,800)		
	good		(300)		
	Ü	_		4,914	
				20,294	

Bennett Trading and profit and loss accour	t for 20X1		QUESTION 4.2
	£	£	
Sales (W1)		40,440	
Opening stock	3,750		
Purchases (W2)	21,140		
	24,890		
Less: Closing stock	(4,600)		
Cost of goods sold		20,290_	

Gross profit			20,150
Add: Bank interest received			50
		-	20,200
Less: General expenses (W3)		7,490	
Depreciation		2,800	
Loan interest (£2,000 × 1	5%)	300	
			10,590
Net profit		_	9,610
Balance sheet at 31 December	r 20X1		
		£	£
Fixed assets			
Motor vehicles at cost			14,000 W4
Less: Accumulated depreciation			4,800 W5
•			9,200
Current assets			
Stock		4,600	
Debtors		1,840	
Bank deposit account (£650 +	£50)	700	
Prepaid expenses		520	
		7,660	
Less: current liabilities			
Creditors		1,140	
Loan interest		300	
Accruals		310	
Bank overdraft		4,630_W6	
		6,380	
Working capital			1,280
			10,480
Financed by:			
Opening capital			8,720
Add: Capital injection – legacy			2,650
Net profit			9,610
Less: Drawings			(12,500)
			8,480
Loan at 15%			2,000
			10,480
W1 Sales	£	W4 Vehicles	£
Proceeds from: Credit sales	7,560	Balance at 1 January	10,000
Cash sales	32,100	Add: Purchases	4,000
	39,660		14,000
Less: Opening debtors	(1,060)		
Add: Closing debtors	1,840		
	40,440		

		We will a so	
		W5 Vehicles: Accum Dep.	
		Balance at 1 January	2,000
		Add: Charge for year	2,800*
			4,800
W2 Purchases			
Payments to suppliers	20,850		
Less: Opening creditors	(850)	W6 Bank overdraft	
Add: Closing creditors	1,140	Opening balance	2,030
	21,140	Add: Payments	44,910
		Less; Receipts	(42,310)
			4,630
W3 General expenses			
Payments	7,560		
Add: Opening prepayments	400		
Less: Opening accruals	(260)		
Less; Closing prepayments	(520)		
Add; Closing accruals	310		
	7,490		
*£14,000 (cost of vehicles owned	at year end) × 2	0% = £2,800.	

Mr Negus			QUESTION 4.4
Trading and profit and loss account p	eriod ending 30 A	April 1996	
	£000	£000	
Sales (295.7+7.9+3.8)		307.4	
Purchases (244.6+5.4+0.6)	250.6		
Less: Closing stock	(37.5)		
Cost of goods sold		213.1	
Gross profit		94.3	
Discounts received		0.6	
Bank interest received		0.5	
		95.4	
Wages (9.2+7.9)	17.1		
Postage and stationery	0.4		
Advertising	4.8		
Heat, light and water $(4.1 + 0.2)$	4.3		
Insurance and telephone	1.8		
Miscellaneous expenses	8.7		
Depreciation of property (80/5)	16.0		
Depreciation of shop fittings (7/5)	1.4		
Depreciation of motor vehicle	0.6		
Net profit		(55.1) 40.3	

Mr Negus				
Balance st	eet as at 30 April 1996			
		£	£	£
Tangible fi	xed assets			
Property			64,000	
Fittings			5,600	
Car			5,100	
				74,700
Investmen	ts			30,000
Current A	ssets			
Stock			37,500	
Debtors			3,800	
Cash			34,900	
			76,200	
Current Li	abilities			
Creditors			(5,600)	
				70,600
				175,300
Capital				150,000
Add: Profi	t			40,300
				190,300
Less: Drav	vings			(15,000)
				175,300

QUESTION 4.6	Ridlingham Recreation Club			
	(a) Bar trading account and gen	eral income expen	diture account for	20X1
		£		£
	Opening stock	4,400	Sales	69,660
	Purchases	48,980 W4		
	Closing stock	(5,280)		
	Cost of goods sold	48,100		
	Wages	7,800		
		55,900		
	Bar profit	13,760		
		69,660		69,660
	General expenses	17,440 W5	Bar profit	13,760
	Rates	1,100	Tennis surplus	6,080 W2
	Depreciation of furniture	500	Rugby surplus	180 W3
		19,040		
	Surplus	980		
		20,020		20,020

Ridlingham Recreation Club (b) Balance sheet at 31 December	per 20X1		
£	£		£
Fixed assets		Accumulated fund at 1 Jan.	68,680 WI
Clubhouse at cost	38,000	Add: Surplus	980
			69,660
Tennis courts at cost		Subscriptions in advance	10,800
less depreciation	35,200		
Furniture and equipment		Current liabilities	
at book value	4,500	Creditors: Bar purchases	4,300
_	77,700	General expens	es 640
Current assets			
Bar stocks 5,280			
Bank balance 2,420		_	
	85,400	_	85,400
W1 Accumulated fund	£	W3 Rugby section	£
Assets		Subscriptions	1,300
Clubhouse	38,000	Collections	180
Tennis courts	24,000	-	1,480
Furniture and equipment	5,000	Less: Kit £900	
Bar stocks	4,400	Rental £400	
Bank balance	1,500		1,300
_	72,900	Surplus	180
Less: Liabilities			
Creditors £3,720 + £500	4,220	W4 Bar purchases	
_		Payments	48,400
<u>-</u>	68,680	Less: Opening creditors	(3,720)
		Add: Closing creditors	4,300
W2 Tennis section		_	48,980
Tournament fees	240		
10-year subscriptions	1,200*	W5 General expenses	
Other subscriptions	6,400	Payments	17,300
Court fees	5,700	Less: Opening creditors	(500)
_		Add: Closing creditors	640
	13,540	_	17,440
Less: Repairs £2,520			
Prizes 140	7.460		
Depreciation 4,800 [†]	7,460		
Surplus	6,080		

^{*}One-tenth of the ten-year tennis membership subscriptions is credited to the income and expenditure account; the remainder is reported in the balance sheet as subscriptions received in advance. The ten-year subscription might alternatively have been credited, in full, direct to the accumulated fund. $^{\dagger}(\pounds40,000\times10\%) + (\pounds16,000\times10\%\times0.5).$

QUESTION 5.2		Blue Land p	olc – cash book		
		£			£
	Balance b/d	20,206	T Singh (error o	n original entry)	10,000
	Bank interest	38	Lease		16,654
	Transfer from investment				
	account	100,000	Bank charges		730
			Balance c/d		92,860
		120,244		_	120,244
		Bank reconci	liation statement		
			£	£	
	Balance as per bank statement	t		(28,949)	
	Add: Outstanding receipts				
	Riolettan Inc		119,432		
	Solway		9,371		
	Trancing Ltd		10,000		
	Clavern		4,237		
				143,040	
				114,091	
	Less: Outstanding payments				
	Busses Ltd (Cheque n	o. 10991)	1,496		
	M Sand & Co (Chequ	e no. 10992)	8,500		
	Auster (Cheque no. 1	0993)	11,235		
				(21,231)	
	Balance as per cash book			92,860	

QUESTION 5.4	Ana	lysed cash l	ook								
	Day	Detail	Total	Sales	Sundry	Day	Detail	Total	Purchases	Wages	Sundry
			£	£				£	£	£	£
	I	Sales	1,790	1,790		I	Balance b/d	6,510			
	2	Sales	2,190	2,190		1	Purchases	2,250	2,250		
	3	Sales	1,250	1,250		2	Wages	380		380	
		Sales of									
		fixed asset	1,000		1,000	4	Interest	400			400
	4	Sales	3,720	3,720		5	Purchases	3,140	3,140		
	5	Sales	1,540	1,540		6	Wages	450		450	

6	Sales	2,710	2,710	6	Balance c/d	1,070			
6	Balance								
	b/d	14,200	13,200	1,000		14,200	5,390	830	400
		1,070							

Note To agree the cross-statement of the payment columns, the opening and closing balances have to be subtracted from the total column as they do not have a corresponding entry in the analysis columns.

Sales da	ıy book					QUESTION 5.6
Day	Details	Total	Typewriters	Stationery	Repairs	
		£	£	£	£	
1	Gum Ltd	375	300	75		
	Glue Ltd	100			100	
2	Stick Ltd	70		70		
3	Fast Ltd	450	450			
	Stick Ltd	50			50	
		1,045	750	145	150	

The accountant uses the trial balance:

QUESTION 6.8

- (a) to check the accuracy of the entries in the ledger (but note that some of the errors are not revealed); and
- (b) as the basis for preparing the trading and profit and loss accounts and balance sheet.

(i) Error Co. Ltd – Journal			QUESTION
	Dr.	Cr.	6.10
	£	£	
(a) Suspense account	1,000		
Creditors control account		1,000	
Sum due to Zed omitted from control account			
(b) Debtors control account	2,400		
Sales account		2,400	
Correction of understated sales day book			
(c) Discounts allowed account	4,890		
Suspense account		4,890	
Discounts for June not posted to nominal ledger			

(d)	Purchases account		24,100	
	Accruals			24,100
	Invoice for goods in sto	ck not invoiced at 30) June 20X2	
(e)	Sales account		1,920	
	Debtors control account			1,920
	Correction of wrong pos	sting		
(ii)	Effect on profit for year			
			£	
	Decreases in profit:			
	Discounts allowed (c)		4,890	
	Purchases omitted (d)		24,100	
	Cash posted to sales	account in error (e)	1,920	
			30,910	
	Increase in profit:			
	Understated sales day	book (b)	2,400	
	Reduction in profit		28,510	
(iii)	Calculation of suspense	account balance		
	Suspense account			
		£		£
	Creditors control			
	account (a)	1,000	Discounts allowed (c)	4,890
	Original balance*	3,890		
		4,890		4,890

QUESTION 6.12	(a)	Sales ledger control acco	ount, year ended £	31 May 1991	£
		Balance b/d	27,490	Discounts allowed	4,170
		Sales	167,800	Cash and cheques rec'd	144,700
				Bad debts	1,730
				Set-offs	3,600
				Returns inwards	4,220
				Balance c/d	36,870
			195,290		195,290
	(b)	(i) Purchase ledger con	ntrol account, ye	ar ended 31 May 1991	
			£		£
		Discounts received	3,910	Balance b/d	21,810
		Cash and cheques pages Set-offs	3,600	Purchases	175,510

	Returns outwards 6,330 Balance c/d 26,710 197,320	197,320
(ii)	Item Discounts allowed	Source Cash book
	Cash and cheques received Discounts received	Cash book
	Cash and cheques paid Bad debts written off	Cash book Journal
	Set-offs	Journal
	Credit sales Credit purchases	Sales day book Purchases day book
	Returns inwards	Returns inwards day book
	Returns outwards Trade debtors at 1 June 1990	Returns outwards day book Debtors control account 31 May 1990
	Trade creditors at 1 June 1990	Creditors control account 31 May 1990

1. (a)						ANSWER 6.14
	hases day book					
			Appliances	Repair		
		Total	for resale	materials	Tools	
19X5	5	£	£	£	£	
Jan.	Dee & Co.	337.74			337.74	
	A. B. Supplies	528.20		528.20		
Feb.	Simpson	141.34		141.34		
	Cotton Ltd	427.40	427.40			
	Dee & Co.	146.82		146.82		
Mar.	A. B. Supplies	643.43		643.43		
	Simpson	95.60		95.60		
		2,320.53	427.40	1,555.39	337.74	
(b)						
Sales	day book					
			Repair	Appliance		
		Total	Work	Sales		
19X5	5	£	£	£		
Jan.	D. Hopkins	362.80	362.80			
	P. Bolton	417.10	417.10			
Feb.	G. Leivers	55.00		55.00		
	M. Whitehead	151.72	151.72			
	N. John Ltd	49.14		49.14		
	A. Linneker	12.53		12.53		

	F	nn .				21				
Mar.	E. Horto	л	462	.21	462,	Z I				
	S. Ward		431	.08	431.	08				
	W. Scot	hem & Co	. 319	.12	319.	12				
	N. Anna	ıble		.41	85					
			2,346		2,229.		116	5.67		
			2,5 .0		_,,			,,,,		
2.	,									
Cash bo	ok – rece	eipts					C 1			
		ъ.					Sales	6.1		
		Dis					Repair	Sales		
		All'o	d	Total		otors		Applianc		isc.
1985		£		£		£	£	£		£
Jan.	Capital			250.00					25	0.0
	Loan			2,000.00					2,00	0.00
	Sales –	reps.		69.44			69.44			
Feb.	D. Hopl	kins 5.	80	357.00	357	.00				
	Sales –	reps.		256.86			256.86			
Mar.	P. Bolton	1		417.10	417	.10				
	G. Leive	ers		55.00	55	.00				
	A. Linne	eker		12.53	12	2.53				
			00	426.00		. ^^				
	S. Ward	5.	UO	120.00	120	.00				
			08			.00	182.90			
	Sales –	reps.	00	182.90		.00	182.90			
		reps. appl's		182.90 112.81				112.81	2,25	50.0
Cash ho	Sales –	reps. appl's 10.		182.90					2,25	50.0
Cash bo	Sales –	reps. appl's 10.	88	182.90 112.81 4,139.64	1,267	7.63	509.20	112.81		
Cash bo	Sales – Sales – ok – rec	reps. appl's 10 eipts		182.90 112.81 4,139.64	1,267	7.63	509.20 Sundries	112.81		
Cash bo	Sales – Sales – ok – rec	reps. appl's 10 eipts	88 -	182.90 112.81 4,139.64	1,267	7.63 Car	509.20 Sundries	112.81		Ва
Cash bo	Sales – Sales – ok – rec Disc Re'd	reps. appl's 10. eipts Total	88	182.90 112.81 4,139.64 Rent/ S	1,267 Stationery	Car	509.20 Sundries	112.81 112.81 Creditors	Drawings	Ва
January Cash	Sales – Sales – Ok – rece Disc Re'd £	reps. appl's 10. eipts Total	88	182.90 112.81 4,139.64 Rent/ S Rates	1,267 Stationery	Car	509.20 Sundries	112.81 112.81 Creditors	Drawings	Ва
January Cash purchaso	Sales – Sales – Ok – rece Disc Re'd £	reps. appl's 10 teipts Total £ 195.29	Repair Mats.	182.90 112.81 4,139.64 Rent/ S Rates	1,267 Stationery	Car	509.20 Sundries	112.81 112.81 Creditors	Drawings	Ва
January Cash purchase Rent	Sales – Sales – Ok – rece Disc Re'd £	reps. appl's 10 eipts Total £ 195.29 400.00	Repair Mats.	182.90 112.81 4,139.64 Rent/ S Rates £	1,267 Stationery	Car	509.20 Sundries	112.81 112.81 Creditors	Drawings	Ва
January Cash purchase Rent Rates	Sales – Sales – Ok – rece Disc Re'd £	reps. appl's 10 eipts Total £ 195.29 400.00 150.00	Repair Mats.	182.90 112.81 4,139.64 Rent/ S Rates	1,267 Stationery £	Car	509.20 Sundries	112.81 112.81 Creditors	Drawings	Ва
January Cash purchase Rent Rates Stationery	Sales – Sales – ok – rec Disc Re'd £	reps. appl's 10 eipts Total £ 195.29 400.00	Repair Mats.	182.90 112.81 4,139.64 Rent/ S Rates £	1,267 Stationery	Car	Sundries	112.81 112.81 Creditors	Drawings	Ва
January Cash purchase Rent Rates	Sales – Sales – ok – rec Disc Re'd £	reps. appl's 10 eipts Total £ 195.29 400.00 150.00 32.70	Repair Mats.	182.90 112.81 4,139.64 Rent/ S Rates £	1,267 Stationery £	Car Expense £	Sundries	112.81 112.81 Creditors	Drawings	Ва
January Cash purchase Rent Rates Stationery Car expens	Sales – Sales – ok – rec Disc Re'd £	reps. appl's 10 eipts Total £ 195.29 400.00 150.00 32.70 92.26	Repair Mats.	182.90 112.81 4,139.64 Rent/ S Rates £	1,267 Stationery £	Car Expense £	Sundries	112.81 112.81 Creditors	Drawings £	Ва
January Cash purchase Rent Rates Stationery Car expens Drawings	Sales – Sales – ok – rec Disc Re'd £	reps. appl's 10 eipts Total £ 195.29 400.00 150.00 32.70 92.26	Repair Mats.	182.90 112.81 4,139.64 Rent/ S Rates £	1,267 Stationery £	Car Expense £	Sundries	112.81 112.81 Creditors	Drawings £	Ва
January Cash purchase Rent Rates Stationery Car expens Drawings February Cash purchase	Sales – Sales – Ok – reco Disc Re'd £	reps. appl's 10 eipts Total £ 195.29 400.00 150.00 32.70 92.26 160.00 161.03	Repair Mats. £ 195.29	182.90 112.81 4,139.64 Rent/ S Rates £	1,267 Stationery £	Car Expense £	\$\sum \text{509.20}\$ Sundries £	112.81 112.81 Creditors	Drawings £	Ва
January Cash purchase Rent Rates Stationery Car expens Drawings February Cash purchase Sundries	Sales – Sales – Ok – reco Disc Re'd £ es	reps. appl's 10 eipts Total \$ 195.29 400.00 150.00 32.70 92.26 160.00 161.03 \$ 51.54	Repair Mats. £ 195.29	182.90 112.81 4,139.64 Rent/ S Rates £	1,267 Stationery £	Car Expenses £	509.20 Sundries es £	112.81 112.81 Creditors	Drawings £	Ва
January Cash purchase Rent Rates Stationery Car expens Drawings February Cash purchase Sundries Car expens	Sales – Sales – Ok – reco Disc Re'd £ es	reps. appl's 10 eipts Total \$ 195.29 400.00 150.00 32.70 92.26 160.00 161.03 \$ 1.54 81.42	Repair Mats. £ 195.29	182.90 112.81 4,139.64 Rent/ S Rates £	1,267 Stationery £	Car Expense £	509.20 Sundries es £	112.81 112.81 Creditors	Drawings £	Ва
January Cash purchase Rent Rates Stationery Car expens Drawings February Cash purchase Sundries Car expens Drawings	Sales – Sales – Ok – reco Disc Re'd £ es	reps. appl's 10 eipts Total \$ 195.29 400.00 150.00 32.70 92.26 160.00 161.03 \$ 51.54	Repair Mats. £ 195.29	182.90 112.81 4,139.64 Rent/ S Rates £	1,267 Stationery £	Car Expenses £	509.20 Sundries es £	112.81 112.81 Creditors	Drawings £	Ва
January Cash purchase Rent Rates Stationery Car expens Drawings February Cash purchase Sundries Car expens	Sales – Sales – Ok – reco Disc Re'd £ ess	reps. appl's 10 eipts Total 195.29 400.00 150.00 32.70 92.26 160.00 161.03 51.54 81.42 160.00	Repair Mats. £ 195.29	182.90 112.81 4,139.64 Rent/ S Rates £	1,267 Stationery £	Car Expenses £	509.20 Sundries es £	112.81 112.81 Creditors	Drawings £	Ва
January Cash purchase Rent Rates Stationery Car expens Drawings February Cash purchase Sundries Car expens Drawings March	Sales – Sales – Ok – reconsider Reid from the sales sees	reps. appl's	Repair Mats. £ 195.29	182.90 112.81 4,139.64 Rent/ S Rates £	1,267 Stationery £	Car Expenses £	509.20 Sundries es £	- 112.81 112.81 Creditors	Drawings £	Ва
January Cash purchase Rent Rates Stationery Car expens Drawings February Cash purchase Sundries Car expens Drawings March Dee & Co.	Sales – Sales – Ok – reconsider Reid from the sales sees	reps. appl's	Repair Mats. £ 195.29	182.90 112.81 4,139.64 Rent/ S Rates £	1,267 Stationery £	Car Expenses £	509.20 Sundries es £	T112.81 112.81 112.81 Creditors	Drawings £	Ba.

Dee & Co.	6.82 140.00			140.00				
Cash								
purchases	22.06	22.06	-	4.61				
Sundries Car	24.61		2	4.61				
expenses	104.52		104.52					
Transfer								
to bank	500.00					500.00		
Drawings	160.00				160.00			
_	7.90 3,561.63	378.38 550.00	$-\frac{32.70}{278.20}$	(6.15) 1,266.20	480.00	500.00		
Balance c/d	578.01 4,139.64							
3.	1,137.01							
		Creditors l	edger control acco	unt				
		£				£		
Cash book –	payments	1,266.20	Purchases da	ay book	2,3	20.53		
Cash book –	· -	17.90						
Balance c/d		1,036.43						
		2,320.53	_		2,3	20.53		
Sales ledger control account								
		£				£		
Sales day boo	Sales day book		Cash book -	Cash book – receipts		1,267.63		
		2,346.1	Cash book -	•		10.88		
			Balance c/d		1,067.60			
		2,346.1	_	2,346.11				
4.			_					
		Sale	s account					
	Repairs	Appl's		Repairs	A	ppl's		
	£	£		£		£		
Balance to			Sales day book	2,229.44	1	16.67		
trading a/c	2,738.64	229.48	Cash book	509.20	1	12.81		
	2,738.64	229.48		2,738.64	2	29.48		
		Cost of	sales account					
	Repairs	Appl's		Repairs	A	ppl's		
	£	£		£		£		
Purchase day								
book	1,555.39	427.40	Tfr to trading a/c	1,242.75	1	06.82		
Cash book	378.38		Stock c/d	691.02	3	20.58		
	1,933.77	427.40		1,933.77	4	27.40		
5.					,			
Trading accou	unt for the th	nree months to 3	I March 19X5					
		Repairs	Appliances	Total				
		£	£	£				
Sales		2,738.64	229.48	2,968.12				
Less: Cost of	sales	1,242.75	106.82	1,349.57				
	_	1 105 00	100.66	1 (10 55				

Gross profit

1,495.89

122.66

1,618.55

6.			
General profit and loss a	ccount for the	three months to	31 March 192
	£	£	
Gross profit		1,618.55	
Discounts received		17.90	
		1,636.45	
Less:			
Rent	200.00		
Rates	150.00		
Stationery	32.70		
Car expenses	278.20		
Sundries	76.15		
Loan interest	50.00		
Depreciation: Car	100.00		
Tools	37.74		
Discounts allowed	10.88		
		935.67	
Net profit		700.78	•
·			-
7.	-k 10V5		
Balance sheet at 31 Mare		C	C
Fixed assets	£ CAR	£ TOOLS	£ TOTAL
At cost	700.00	337.74	1,037.74
Less: Depreciation	600.00	37.74	137.74
			900.00
Current assets			
Stock of repair materials		691.02	
Stock of appliances		320.58	
Debtors		1,067.60	
Bank		500.00	
Cash		578.01	
Prepaid rent		200.00	
		3,357.21	
Credit liabilities			
Creditors	1,036.43		
Accrued interest	50.00		
		1,086.43	
			2,270.78
			3,170.78
LESS: Loan			2,000.00
			1,170.78
Financed by:			
Capital introduced			950.00

Plus: Profit	700.78	
	1,650.78	
Less: Drawings	480.00	
	1,170.78	

(a)		QUESTION 7.2		
	£		£	
I Jan. XI Asset A	5,000	31 Dec. X1 Balance c/d	7,500	
Asset B	2,500			
	7,500		7,500	
I Jan. X2 Balance b/d	7,500	1 Jan. X3 Disposal of asset E	3 2,500	
1 Feb. X3 Asset C	7,000	Balance c/d	12,000	
	14,500		14,500	
	Accumulated	d depreciation		
	£		£	
31 Dec. X2 Balance c/d	3,000	31 Dec. X1 Profit and loss	1,500	
		31 Dec. X2 Profit and loss	1,500	
	3,000		3,000	
1 Jan. X3 Disposal of asset B	1,000	1 Jan. X3 Balance b/d	3,000	
31 Dec. X3 Balance c/d	4,400	31 Dec. X3 Profit and loss	2,400	
	5,400		5,400	
	Disposal o	f fixed assets		
	£		£	
1 Jan. X3 Fixed assets	2,500	1 Jan. X3 Depreciation	1,000	
		Proceeds	900	
		Profit and loss	600	
	2,500		2,500	
(b) Balance sheet extracts		l		
	31 Dec	. XI 31 Dec. X2 31	Dec. X3	
	£	£	£	
Fixed assets at cost	7,50	7,500	2,000	
Less: Accumulated depreciation	1,50	3,000	4,400	
Written-down value	6,00	4,500	7,600	

(a) Motor vehicles at cost account				
£		£		
127,000	Van scrapped (1)	2,000		
1,500	Disposal – car (2)	5,000		
	£ 127,000	£ 127,000 Van scrapped (1)	£ £ 127,000 Van scrapped (1) 2,000	

Disposal of van (4)	2,500	Disposal – car (3)	4,000
()	,	Disposal – van (4)	10,000
		Balance c/d	110.000
	131,000	Balance cya	131,000
			131,000
		depreciation account	
	£		£
Van scrapped (1)	2,000	Balance per trial balance	76,000
Disposal – car (2)	3,000	Profit and loss	
Disposal – car (3) (W1)	2,750	Account – charge for	
Disposal – van (4) (W2)	6,750	20X3	25,000
Balance c/d	86,500		
	101,000		101,000
	Disposal of moto	or vehicles account	
	Disposai oi illou	or venicies account	
	£	or venicles account	£
Car at cost (2)		Balance per trial balance	£
Car at cost (2) Car at cost (3)	£		
` '	£ 5,000	Balance per trial balance	1,600
Car at cost (3)	£ 5,000 4,000	Balance per trial balance Trade-in allowance (2)	1,600 1,500
Car at cost (3)	£ 5,000 4,000	Balance per trial balance Trade-in allowance (2) Depreciation (2)	1,600 1,500 3,000
Car at cost (3)	£ 5,000 4,000	Balance per trial balance Trade-in allowance (2) Depreciation (2) Depreciation (3) (W1)	1,600 1,500 3,000 2,750
Car at cost (3)	£ 5,000 4,000	Balance per trial balance Trade-in allowance (2) Depreciation (2) Depreciation (3) (W1) Proceeds on sale of van (4)	1,600 1,500 3,000 2,750 2,500
Car at cost (3)	£ 5,000 4,000	Balance per trial balance Trade-in allowance (2) Depreciation (2) Depreciation (3) (W1) Proceeds on sale of van (4) Depreciation (4) (W2)	1,600 1,500 3,000 2,750 2,500
Car at cost (3)	£ 5,000 4,000	Balance per trial balance Trade-in allowance (2) Depreciation (2) Depreciation (3) (W1) Proceeds on sale of van (4) Depreciation (4) (W2) Loss on disposal of vehicles	1,600 1,500 3,000 2,750 2,500
Car at cost (3)	£ 5,000 4,000	Balance per trial balance Trade-in allowance (2) Depreciation (2) Depreciation (3) (W1) Proceeds on sale of van (4) Depreciation (4) (W2) Loss on disposal of vehicles transferred to profit and	1,600 1,500 3,000 2,750 2,500 6,750

W1 Disposal of car

Using the formula:

Written down value = Cost - Accumulated depreciation

then 1,250 = 4,000 - Accumulated depreciation

∴ Accumulated depreciation = £2,750

W2 Disposal of delivery van

Using the formula:

Proceeds – (Cost – Accumulated depreciation) = Profit (loss) on disposal

then 2,500 - (10,000 - Accumulated depreciation) = (750)

 \therefore Accumulated depreciation = £6,750

(b) Balance sheet extract at 31 December 20X3

I
110,000
86,500
23,500

Note The number in brackets after some of the entries in the accounts refers to the number of the note given in the question on which the entry is based.

(a)	Jour	nal En	tries			QUESTION 7.6
	(i)	DR.	Zeta Limited's purchase ledger balance	1,080		
		CR.	Zeta Limited's sales ledger balance		1,080	
		Being	g contra entries in relation to Zeta Limited	's		
	(ii)	DR.	Bad debt expense	3,590		
		CR.	Sales ledger: P		840	
			Q		120	
			R		360	
			S		2,090	
			Т		180	
		Bein	g write-off of debtor balances.			
	(iii)	DR.	Bad debt expense	2,140		
		CR.	Provision for doubtful debts		2,140	
		Bein	g increase in the doubtful debt provision.			
	(iv)	DR.	Vau Limited's sales ledger balance	200		
		CR.	Tau Limited's sales ledger balance		200	
		Bein	g correction of sales ledger account mispo	esting.		
(b)	Del	otors:			£	
	Е	Balance	b/f		384,600	
	P	urchas	e ledger debit balances		1,860	
	Z	Zeta co	ntra		(1,080)	
	В	ad deb	ot write-off		(3,590)	
					381,790	
	L	ess: Pr	ovision for doubtful debts		(5,200)	
					376,590	
	Cre	ditors:				
	В	alance	b/f	222,230		
	S	ales le	dger credit balances	2,900		
	Z	Četa co	ntra	(1,080)		
	T	otal cr	editors	224,050		
Of v	vhich	: £196	5,050 payable within one year			
			000 payable after more than one year			
			. ,			

QUESTION 8.2	(a)	Bank account for 20X3							
		n III (£		£				
		Bank balance for	19,400	General expenses	2,500				
		1 Jan. 20X3	76.500	Cost of properties	85,250				
		Receipts	76,500	Legal expenses on purchases	2,550				
				Legal expenses on sales	1,250				
				Improvements	1,780				
			05.000	Closing balance	2,570				
			95,900	-	95,900				
	(b)	Profit and loss account for	20X3*						
			£	£					
	Sales	;		107,750					
	Less:	: Cost of properties sold:							
		No.1	30,250						
		3 36,250+1,000+260	37,510						
		4 24,000+750+1,000	25,750						
		•	93,510						
		Selling expenses	1,250						
		General expenses	2,500						
	Net	profit		97,260					
				10,490					
	D.	alance sheet at 31 Decembe	ar 20V2						
	Di	aiance sneet at 51 Decembe	£	£					
	D.	concrtice at hand:	I	T					
	FI	operties at hand: 2		29,350					
		5 25,000+800+520		<u>26,320</u> 55,670					
	D	ebtors	31,250						
		ank balance							
	Do	dlik Dalalice	2,570	33,820					
				89,490					
	0	pening capital		79,000					
		pening capital ofit		10,490					
	PI	OIIL							
				<u>89,490</u>					
	*,	An alternative presentation;	£	£					
	Sa	ales		107,750					
	0	pening stock	59,600						

Purchases (including legal exper on purchase and improvemen		
Closing stock Gross profit	(55,670)	93,510
Less: Legal expenses on sales	1,250	
General expenses	2,500	3,750
Net profit		10,490

(-)	النبال -	C	C	QUESTION 8.4
(a)	Goodwill	£	£	Question 8.4
	Price paid		120,000	
	Less: Net assets acquired			
	Fixed assets	71,500		
	Stocks	20,000		
	Debtors	10,000		
		101,500		
	Deduct trade creditors	5,000	96,500	
			23,500	
(1-)	C 4:: -++		22.500	
(b)	Goodwill at cost		23,500	
	Less: Amount written off (£23,	$500 \div 5)$	4,700	
			18,800	

(a) (i) Profit Statement Jar	QUESTION 8.6			
	January	February	March	
	£	£	£	
Sales (£21 per unit)	8,400	9,450	10,920	
Less: Variable manufacturing				
cost (£12 per unit)	5,400	5,760	6,000	
Opening stock	_	600	960	
Closing stock	(600) W1	(960) W2	(720) W3	
	4,800	5,400	6,240	
Manufacturing overheads	1,800	1,800	1,800	
Total manufacturing cost	6,600	7,200	8,040	
Gross profit	1,800	2,250	2,880	
Fixed admin. expenses	600	600	600	
Net profit	1,200	1,650	2,280	

(ii) Profit Statement January–March 1994: total cost basis								
	January	February	March					
	£	£	£					
Sales (£21 per unit)	8,400	9,450	10,920					
Less: Variable manufacturing								
cost (£12 per unit)	5,400	5,760	6,000					
Manufacturing overheads	1,800	1,800	1,800					
	7,200	7,560	7,800					
Opening stock	_	800	1,260					
Closing stock	(800) W4	(1,260) W5	(936) W6					
	6,400	7,100	8,124					
Gross profit	2,000	2,350	2,796					
Fixed admin. expenses	600	600	600					
Net profit	1,400	1,750	2,196					

- W1 450 (production) -400 (sales) = $50 \times £12 = 600$.
- W2 50 + 480 (production) -450 (sales) $=80 \times £12 = £960$.
- W3 80 + 500 (production) 520 (sales) = $60 \times £12 = £720$.
- W4 $£600 + [50(stock)/450 \text{ (production)} \times £1,800 \text{ (manufacturing overheads)}] = £800.$
- W5 $£960 + (80/480 \times £1,800) = £1,260$.
- W6 $£720 + (60/500 \times £1,800) = £936$.
- (b) The valuation of stock based on the marginal costing approach results in the inclusion of only the variable manufacturing cost per unit of £12. The absorption costing approach requires the inclusion of a fair proportion of manufacturing overheads in the stock valuation.

For example, in the month of January, 400 units were produced for sale and 50 units for stock. In other words, 50 of the 450 units, or one-ninth of total production, remained in stock at the end of January, and so one-ninth of the manufacturing overheads of £1,800 (i.e. £200) must be included in the valuation of stock, producing an absorption cost valuation of £800 compared with a marginal cost valuation of £600.

The outcome is that additional expenditure amounting to £200 is carried forward under the total cost method, and the net profit for that month is therefore £200 higher than under the marginal cost approach. This situation will continue so long as production exceeds sales, with the result that the level of stock and related overheads carried forward increases. This happens in the month of February. In the month of March, however, the stock level is reduced and the relative profit levels reversed; the reason is that, with the level of stocks reduced, the amount of overheads *carried forward* under the total cost approach is less than the level of overheads *brought forward*.

OUESTION 8.8

(a) (i)	(a) (i) LIFO basis – stock card								
		Receipt	s		Issues			Balanc	e
	Units	Price	Total	Units	Price	Total	Units	Price	Total
		£	£		£	£		£	£
1 June	1,500	90	135,000				1,500	90	135,000
June				340	90	30,600			
July				700	90	63,000	460	90	41,400
1 Aug.	2,000	92	184,000				2,000	92	184,000
August				800	92	73,600			
Sept.				450	92	41,400	460	90	41,400
							750	92	69,000
1 Oct.	3,000	93	279,000				3,000	93	279,000
Oct.				900	93	83,700			
Nov.				630	93	58,590	460	90	41,400
							750	92	69,000
_					_		1,470	93	136,710
	6,500	5	98,000	3,820		350,890	2,680		247,110

(ii) FIFO basis

Receipts 6,500 Issues 3,820 Balance 2,680 units

Balance of stock valued at most recent prices:

Stock $£93 \times 2,680 = £249,240$

Trading account June-November 1992

	FIFO	LIFO
	£	£
Sales: £140 × 1,040	145,600	
£144 × 2,150	309,600	
£145 × 630	91,350	
	546,550	546,550
Purchases	598,000	598,000
Closing stock	249,240	247,110
Cost of goods sold	348,760	350,890
Gross profit	197,790	195,660

There is no need to prepare a full stock card in order to discover the cost of sales under FIFO. The balance of stock should always be valued at most recent purchase price and the cost of goods sold can then be discovered by deducting closing stock from purchases.

(b) The use of LIFO as the basis of stock valuation does not mean that Mr Hart is left with the oldest intake of stock at the end of the period. LIFO is merely an assumption made in order to facilitate the valuation of stock for the purpose of calculating profit. The actual items remaining in stock is, to a great extent, a matter of chance depending upon which items happen to have been issued during the period.

QUESTION 8.10

- (a) (i) Down. LIFO uses older prices than FIFO and gives a higher value for the same volume of goods. Also net realizable value at 31 December 20X1 is lower than the FIFO value calculated on the basis of purchases immediately prior to the year end.
 - (ii) *Up.* FIFO values stock at the most recent purchase price, and this is higher than the LIFO value.
- (b) *LIFO* gives the highest value for closing stock and hence the lowest value for cost of goods sold.
- (c) Lower of FIFO and net realizable value. Cost of goods sold is calculated by applying the formula

Opening stock + Purchases - Closing stock

Cost of goods sold will be lowest, and hence profit highest, when closing stock is greater than opening stock, and the difference between them is maximized.

(d) *LIFO*. This method gives the lowest stock value at 31 December 20X3, and hence the highest cost of goods sold figure for the three-year period.

Answers (b)–(d) may alternatively be based on the following calculations:

	20X1	20X2	20X3	Totals
LIFO	£	£	£	£
Opening stock	-	96,480	87,360	-
Purchases	240,000	252,000	324,000	816,000
Closing stock	(96,480)	(87,360)	(100,320)	(100,320)
Cost of goods sold	143,520	261,120	311,040	715,680
FIFO				
Opening stock	-	96,000	86,400	-
Purchases	240,000	252,000	324,000	816,000
Closing stock	(96,000)	(86,400)	(105,600)	(105,600)
Cost of goods sold	144,000	261,600	304,800	710,400

Lower of FIFO and n	et realizable value			
Opening stock	-	88,800	81,600	-
Purchases	240,000	252,000	324,000	816,000
Closing stock	(88,800)	(81,600)	(105,600)	(105,600)
Cost of goods sold	151,200	259,200	300,000	710,400

Trading account for 20X1			QUESTION
	£	£	8.12
Sales		100,000	
Less: Opening stock	10,000		
Purchases	80,000		
Closing stock	(11,000)		
Cost of goods sold		79,000	
Gross profit		21,000	
·			

(a) (i) The LIFO method of stock valuation assumes that the most recent items purchased or produced are issued first. If items were purchased in January, February and March then under this method the March items would be issued first, followed by February and then January's purchases. QUESTION

8.14

(ii) Three methods of stock valuation that are acceptable under SSAP 9 are:FIFO, which assumes that the oldest items purchased of produced are issued first.This is acceptable as stock is valued at current prices.

Average cost, which assumes that any stock item is likely to be issued next and so a weighted average cost is calculated. This is acceptable as it is a more realistic situation.

Unit cost, which values stock at the amount it cost to produce or purchase. This is acceptable as it uses historic cost as the basis of valuation.

LIFO is not acceptable as it values stock at out-of-date prices and therefore current assets would be understated.

(iii) Finished goods stock would include cost of materials, direct labour and production overheads (allocated according to normal levels of production).

(b) (i) LIFO

		No. of	Unit Cost		Stock Value
Date	Narrative	Units	£	Items in stock	£
28 Feb	Stock b/f	4,000	12	4,000 @ £12	48,000
8 Mar	Issues	3,800	15	4,000 @ £12	
				3,800 @ £15	105,000
12 Mar	Sale	(3,800)	15	2,800 @ £12	33,600
		(1,200)	12		
18 Mar	Sale	(2,000)	12	800 @ £12	9,600
22 Mar	Issues	6,000	18	800 @ £12	
				6,000 @ £18	118,400
24 Mar	Sale	(3,000)	18	800 @ £12	
				3,000 @ £18	63,600
28 Mar	Sale	(2,000)	18	800 @ £12	
				1,000 @ £18	27,600

(ii) Average cost

		No. of	Unit Cost		Weighted
Date	Narrative	Units	£	Items in Stock	Average £
28 Feb	Stock b/f	4,000	12.00	4,000 @ £13.00	52,000
8 Mar	Issues	3,800	15.00	7,800 @ £13.97	108,966
12 Mar	Sale	(5,000)	13.97	2,800 @ £13.97	39,116
18 Mar	Sale	(2,000)	13.97	800 @ £13.97	11,176
22 Mar	Issues	6,000	18.00	6,800 @ £17.53	119,204
24 Mar	Sale	(3,000)	17.53	3,800 @ £17.53	66,614
28 Mar	Sale	(2,000)	17.53	1,800 @ £17.53	31,554

8 Mar
$$4,000 \times £13$$
 52,000 $3,800 \times £15$ 57,000 $\hline 7,800$ Average cost (109,000/7,800 = £13.97)

Trading and profit and loss account, year	to 31 Decen	mber 20X4		QUESTION
	£	£		9.2
Sale (200,000 + 6,400 + 5,460)		211,860		
Purchases: 160,000 (bank)				
2,500 (cash)				
3,800 (creditors)				
– 2,260 (drawings)				
	164,040			
Less: Closing stock	9,200			
Cost of goods sold		154,840		
Gross profit		57,020		
Less:				
Rent and rates (3,500 - 100)	3,400			
Light and heat (1,260 + 140)	1,400			
Depreciation $(19,000 - 3,000)/5$	3,200			
Wages	17,000			
Petrol	2,000			
Maintenance	1,000			
Advertising	900			
Net profit		28,900		
		28,120		
Appropriation:				
Minute	14,060			
Second	14,060			
		28,120		
Balance sheet at 31 December 20X4				
	£	£	£	
Van: Cost			19,000	
Depreciation			3,200	
·			15,800	
Current assets				
Stock		9,200		
Debtors			5,460	
Prepaid rent			100	
Cash		5,240		
		20,000		

Current lia	bilities			
Trade cred	itors	3,800		
Accrued lig	ght and heat		140	
			3,940	
Working ca	ıpital			16,060
				31,860
		Second	Minute	
Capital acc	ounts	20,000	20,000	40,000
Current ac	counts:			
Pr	ofit	14,060	14,060	
Di	rawings: Cash	(18,000)	(16,000)	
	Stock	(1,000)	(1,260)	
		(4,940)	(3,200)	(8,140)
				31,860

QUESTION	(a)			
9.4		£	£	
	1. Sales account	3,000		
	Debtors ledger control account		3,000	
	2. Provision for bad debts account*	400		
	Profit and loss account		400	
	* (153,000 – 3,000 [error 1]) × 2% =	= 3,000		
	3,400 - 3,000 = 400 reduction in pro	ovision		
	(b)			
		£		
	Net profit	95,000		
	Journal I	(3,000)		
	Journal 2	400		
	Adjusted profit	92,400		
	(c)			
		Amir	Barry	Total
		£	£	£
	Profit			92,400
	Interest on drawings	1,900	3,500	5,400
				97,800
	Less: interest on capital	8,400	6,000	14,400
				83,400
	Salary	10,000	13,000	23,000
				60,400
	Residual profit	36,240	24,160	60,400

	Amir	Barry		Amir	Barry
					-
	£	£		£	£
Interest	1,900	3,500	Balance b/d	250	1,240
Drawings	37,000	40,400	Interest	8,400	6,000
Balance c/d	15,990	500	Salary	10,000	13,000
			Residue	36,240	24,160
-	54,890	44,400		54,890	44,400

Lincoln plc			QUESTION
Profit and loss account period end	ling 31 December 19	92	10.2
	£000	£000	
Turnover		5,000	
Less: Returns inwards		(100)	
		4,900	
Opening stock	300		
Purchases (Note 1)	2,240		
	2,540		
Less: Closing stock	(400)		
Cost of goods sold		2,140	
Gross profit		2,760	
Discounts received		10	
Gain on redemption of debentures	$(800 \times \frac{1}{2}) - 380$	20	
		2,790	
Operating expenses	1,300		
Discounts allowed	20		
Depreciation (Note 2)	125		
Compensation payment	50		
Debenture interest paid and			
accrued (60 + $(\frac{1}{2} \times 60)$)	90		
		(1,585)	
		1,205	
Dividends: Interim	100		
Final	110		
		(210)	
Retained profit for the year		995	
Retained profit brought forward		200	
Retained profit carried forward		1,195	
•			

Fixed assets: Land Property Accumulated depreciation Machinery Accumulated depreciation Accumulated depreciation Accumulated depreciation Accumulated depreciation Current assets: Stock 400 Debtors 1,000 Owing from director 10 1,410 Creditors: amounts falling due within one year Overdraft 30 Creditors 400 Proposed dividends 110 Accrued interest 30 Net current assets (working capital) Total assets less current liabilities Creditors: amounts falling due after more than one year 15% Debentures (400 3,515 Share capital and reserves: Share capital Share premium (0.6 × 200) + 500 Revaluation reserve (1,500 – 900) Profit and loss account 1,195	Balance sh	eet as at 31 December			
Land			£000	£000	£000
Property 800 Accumulated depreciation (216) 584 Machinery 1,600 391 Accumulated depreciation (609) 991 3,075 3,075 Current assets: 400 Current assets: 1,000 1,000 Owing from director 10 1,410 Creditors: amounts falling due within one year 620 Overdraft 30 30 Creditors: amounts falling due within one year (570) Net current assets (working capital) 840 Total assets less current liabilities 3,915 Creditors: amounts falling due after more than one year 400 15% Debentures (400 Share capital and reserves: 5hare capital 1,100 Share capital and reserves: 5hare capital 1,100 Share premium (0.6 × 200) + 500 620 Revaluation reserve (1,500 – 900) 600 Profit and loss account 1,195 3,515 3,515 Note 1: Purchases: (150) As per question		S:			
Accumulated depreciation (216)					1,500
Machinery 1,600 Accumulated depreciation (609) 991 3,075 Current assets: 400 Stock 400 Debtors 1,000 Owing from director 10 Creditors: amounts falling due within one year 10 Overdraft 30 Creditors 400 Proposed dividends 110 Accrued interest 30 Net current assets (working capital) 840 Total assets less current liabilities 3,915 Creditors: amounts falling due after more than one year 400 15% Debentures 400 Share capital and reserves: 400 Share capital and reserves: 5hare capital 1,100 Share premium (0.6 × 200) + 500 620 Revaluation reserve (1,500 – 900) 600 Profit and loss account 1,195 3,515 Note 1: Purchases: As per question 2,400 Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: 1,600					
Accumulated depreciation (609) 991 3,075 Current assets: Stock 400 Debtors 1,000 Owing from director 10 T.410 Creditors: amounts falling due within one year Overdraft 30 Creditors 400 Proposed dividends 110 Accrued interest 30 Net current assets (working capital) 50 Total assets less current liabilities 3,915 Creditors: amounts falling due after more than one year 15% Debentures (400 Share capital and reserves: Share capital share premium (0.6 × 200) + 500 Revaluation reserve (1,500 – 900) Profit and loss account 1,195 3,515 Note 1: Purchases: As per question 2,400 Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost 1,600		ed depreciation	-		584
3,075 Current assets: Stock					
Current assets: 400 Debtors 1,000 Owing from director 10 Creditors: amounts falling due within one year 1,410 Overdraft 30 Creditors 400 Proposed dividends 110 Accrued interest 30 Net current assets (working capital) 840 Total assets less current liabilities 3,915 Creditors: amounts falling due after more than one year (400 15% Debentures (400 Share capital and reserves: (400 Share permium (0.6 × 200) + 500 620 Revaluation reserve (1,500 − 900) 600 Profit and loss account 1,195 3,515 Note 1: Purchases: As per question 2,400 Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost Cost 1,600	Accumulat	ed depreciation		(609)	
Stock 400 Debtors 1,000 Owing from director 10 1,410 1,410 Creditors: amounts falling due within one year 0 Overdraft 30 Creditors 400 Proposed dividends 110 Accrued interest 30 Net current assets (working capital) 840 Total assets less current liabilities 3,915 Creditors: amounts falling due after more than one year (400 15% Debentures (400 Share capital and reserves: (400 Share premium (0.6 × 200) + 500 620 Revaluation reserve (1,500 – 900) 600 Profit and loss account 1,195 3,515 Note 1: Purchases: As per question 2,400 Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost Cost 1,600					3,075
Debtors		sets:			
Owing from director 10 Creditors: amounts falling due within one year 1,410 Overdraft 30 Creditors 400 Proposed dividends 110 Accrued interest 30 Net current assets (working capital) 840 Total assets less current liabilities 3,915 Creditors: amounts falling due after more than one year 400 15% Debentures (400 Share capital and reserves: 5 Share premium (0.6 × 200) + 500 620 Revaluation reserve (1,500 – 900) 600 Profit and loss account 1,195 Note 1: Purchases: As per question 2,400 Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost Cost 1,600	Stock				
1,410				1,000	
Creditors: amounts falling due within one year Overdraft 30 Creditors 400 Proposed dividends 110 Accrued interest 30 (570) Net current assets (working capital) 840 Total assets less current liabilities 3,915 Creditors: amounts falling due after more than one year (400 15% Debentures (400 Share capital and reserves: (400 Share capital 1,100 Share premium (0.6 × 200) + 500 620 Revaluation reserve (1,500 – 900) 600 Profit and loss account 1,195 3,515 Note 1: Purchases: As per question 2,400 Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost Cost 1,600	Owing from	n director			
Overdraft 30 Creditors 400 Proposed dividends 110 Accrued interest 30 (570) Net current assets (working capital) 840 Total assets less current liabilities 3,915 Creditors: amounts falling due after more than 600 one year (400 15% Debentures (400 Share capital and reserves: 1,100 Share premium (0.6 × 200) + 500 620 Revaluation reserve (1,500 – 900) 600 Profit and loss account 1,195 3,515 Note 1: Purchases: 2,400 Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost Cost 1,600				1,410	
Creditors 400 Proposed dividends 110 Accrued interest 30 (570) Net current assets (working capital) 840 Total assets less current liabilities 3,915 Creditors: amounts falling due after more than one year (400 15% Debentures (400 Share capital and reserves: (570) Share premium (0.6 × 200) + 500 620 Revaluation reserve (1,500 – 900) 600 Profit and loss account 1,195 Note 1: Purchases: As per question 2,400 Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost Cost 1,600	Creditors:	amounts falling due wi	thin one year		
Proposed dividends 110 Accrued interest 30 Net current assets (working capital) 840 Total assets less current liabilities 3,915 Creditors: amounts falling due after more than one year (400 15% Debentures (400 Share capital and reserves: (400 Share premium (0.6 × 200) + 500 620 Revaluation reserve (1,500 – 900) 600 Profit and loss account 1,195 3,515 3,515 Note 1: Purchases: 4,400 Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: 1,600	Overdraft		30		
Accrued interest 30 Net current assets (working capital) 840 Total assets less current liabilities 3,915 Creditors: amounts falling due after more than one year 15% Debentures (400 3,515 Share capital and reserves: Share capital 1,100 Share premium (0.6 × 200) + 500 Revaluation reserve (1,500 – 900) Profit and loss account 1,195 3,515 Note 1: Purchases: As per question 2,400 Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost 1,600	Creditors		400		
Net current assets (working capital) Total assets less current liabilities Creditors: amounts falling due after more than one year 15% Debentures (400 3,515 Share capital and reserves: Share capital Share premium (0.6 × 200) + 500 Revaluation reserve (1,500 – 900) Profit and loss account Note 1: Purchases: As per question Less: returns Private use (10) 2,240 Note 2: Depreciation: Cost 1,600	Proposed	dividends	110		
Net current assets (working capital) Total assets less current liabilities Creditors: amounts falling due after more than one year 15% Debentures (400 3,515 Share capital and reserves: Share capital Share premium (0.6 × 200) + 500 Revaluation reserve (1,500 – 900) Profit and loss account 1,195 3,515 Note 1: Purchases: As per question Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost 1,600	Accrued in	terest	30		
Total assets less current liabilities Creditors: amounts falling due after more than one year 15% Debentures (400 3,515 Share capital and reserves: Share capital Share premium (0.6 × 200) + 500 Revaluation reserve (1,500 – 900) Profit and loss account 1,195 3,515 Note 1: Purchases: As per question Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost 1,600				(570)	
Creditors: amounts falling due after more than one year 15% Debentures (400 $\overline{}$ 3,515 Share capital and reserves: Share capital 1,100 Share premium $(0.6 \times 200) + 500$ Revaluation reserve $(1,500 - 900)$ Profit and loss account 1,195 $\overline{}$ 3,515 Note 1: Purchases: As per question Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost 1,600	Net currer	t assets (working capit	al)		840
one year 15% Debentures (400) 3,515 Share capital and reserves: Share capital 1,100 Share premium (0.6 × 200) + 500 Revaluation reserve (1,500 – 900) Profit and loss account 1,195 3,515 Note 1: Purchases: As per question Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost 1,600	Total asset	s less current liabilities			3,915
15% Debentures	Creditors:	amounts falling due af	ter more than		
3,515 Share capital and reserves: Share capital 1,100 Share premium (0.6 × 200) + 500 620 Revaluation reserve (1,500 – 900) 600 Profit and loss account 1,195 3,515 Note 1: Purchases: As per question 2,400 Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost 1,600	one yea	r			
Share capital and reserves: Share capital Share premium $(0.6 \times 200) + 500$ Revaluation reserve $(1,500 - 900)$ Profit and loss account Note 1: Purchases: As per question Less: returns Private use (150) Private use (10) $2,240$ Note 2: Depreciation: Cost $1,600$	15% Debe	ntures			(400)
Share capital 1,100 Share premium (0.6 × 200) + 500 620 Revaluation reserve (1,500 – 900) 600 Profit and loss account 1,195 3,515 Note 1: Purchases: As per question Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost 1,600					3,515
Share premium (0.6 × 200) + 500 620 Revaluation reserve (1,500 – 900) 600 Profit and loss account 1,195 3,515 3,515 Note 1: Purchases: As per question Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost 1,600	Share capi	tal and reserves:			
Revaluation reserve (1,500 – 900) Profit and loss account 1,195	Share capi	al			1,100
Profit and loss account 1,195	Share prer	nium $(0.6 \times 200) + 50$	00		620
3,515 Note 1: Purchases:	Revaluation	n reserve (1,500 – 90	0)		600
Note 1: Purchases: As per question	Profit and	loss account			1,195
As per question 2,400 Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost 1,600					3,515
As per question 2,400 Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost 1,600	Note 1:	Durchases			
Less: returns (150) Private use (10) 2,240 Note 2: Depreciation: Cost 1,600			2 400		
Private use (10) 2,240 Note 2: Depreciation: Cost 1,600					
Note 2: Depreciation: Cost 1,600					
Note 2: Depreciation: Cost 1,600		i iivate use			
Cost 1,600	N a	D			
		•			

Note 3: Elimination of suspense account

Suspense Account

	£000		£000
Balance b/d	210	Compensation payment	50
Issue of shares	220	Redemption of debentures	380
	430	Dissolution expenses	430

Profit and loss account year ended 31 Ma	arch 20X6			QUESTION
_		£	£	10.4
Gross profit			1,020,800	
Less: Administration expenses		216,900		
Selling expenses		150,400		
Bad debts written off		8,700		
General repairs and maintenance		25,200		
Debenture interest		30,000		
Depreciation (25% of (£1,300,000 -	- £512,000))	197,000	628,200	
Net profit before tax			392,600	
Corporation tax		_	150,000	
Net profit after tax			242,600	
Less: Proposed dividend			75,000	
Retained profit for the year		_	167,600	
Retained profit at 1 April 19X5		1,039,000		
Less: Bonus issue		1,000,000 W1	39,000	
Retained profit at 31 March 19X6		-	206,600	
Balance sheet as at 31 March 20X6				
Fixed assets	£	£	£	
Freehold land and buildings at valuation			900,000	
Plant and machinery at cost		1,420,000 W2	2	
Accumulated depreciation to April 20X5		512,000		
Charge for current year	197,000	709,000	711,000	
			1,611,000	

Current assets			
Stock and work in progress			984,020
Debtors and prepayments	370,080		
Less: Provision for doubtful debts	15,000	355,080	
Bank balance	268,000		
		1,607,100	
Less: current liabilities			
Creditors and accrued expenses		471,500 W	2
Debenture interest outstanding		15,000	
Proposed dividend		75,000	
Corporation tax due 1 Jan. 20X7		150,000	
		711,500	
Net current assets			895,600
Total assets less current liabilities			2,506,600
Less: 10% debentures repayable 20X9			300,000
			2,206,600
Financed by:			
Ordinary share capital: Authorized			2,000,000
Issued (£1 shares)			1,500,000
Revaluation reserve			500,000
Retained profit			206,600
			2,206,600
W1 The directors could alternatively o	choose to mak	e part of the bo	onus issue from
revaluation reserve.			
W2 Includes £120,000 for plant delivered	ed on 31 Marc	h 20X6.	
·			

QUESTION	(a)	Profit and loss account year ended 31 Decemb	er 20X9	
10.6			£	£
		Gross profit on trading		416,500
		Less: Rent and rates (£30,000 - £6,000)	24,000	
		Office salaries	142,600	
		Advertising costs	21,000	
		Transport costs	23,600	
		Depreciation	37,500_	248,700
		Net profit before tax		167,800
		Taxation		83,900
		Net profit after tax		83,900
		Retained profit at beginning of year		278,500
		Less: Bonus issue	100,000	178,500
		Retained profit at end of year		262,400

	£	£
Freehold property at valuation		650,000
Furniture and equipment at cost	375,000	
Less: Accumulated depreciation (£59,500 + £37,500)	97,000	278,000
-		928,000
Current assets		
Stock and work in progress	104,200	
Debtors and prepayments (£105,000 + £6,000)	111,000	
Deposit	10,000	
Temporary investment	60,000	
Balance at bank	72,000	
	357,200	
Current liabilities		
Creditors and accruals		85,300
Taxation due 1 Jan. 20Y0	103,600	
1 Jan. 20Y1	83,900	
_	272,800	
Working capital		84,400
		1,012,400
Financed by:		
Ordinary share capital (£500,000 + £100,000)		600,000
Revaluation reserve		150,000
Profit and loss account		262,400
		1,012,400

- (b) A dividend of 10p per share on the revised share capital of £600,000 would involve a payment of £60,000. There is no doubt that the bank balance at 31 December 20X9 appears sufficient to support this payment, and the after-tax profits for the year are £83,900. Consideration must, however, be given to the company's future commitments. During January 20Y0, a tax payment of £103,600 must be made as well as £40,000 for the new equipment when delivery takes place. This would suggest that bank overdraft facilities will be required during January even if no dividend is paid, although the position would be partially alleviated by the sale of the temporary investment. Funds generated from trading operations during 20X9 amounted to £205,300 (profit £167,800 and depreciation £37,500), and this should soon make good any cash shortage if the results are repeated during 20Y0. Nevertheless a dividend payment of £60,000 is probably unwise at this stage.
- (a) FRS 3 introduced the requirement to disclose separately the results of continuing and discontinued operations and acquisitions. The separate disclosure is from turnover down to operating profit.

QUESTION 10.8

This separate disclosure is designed to assist the user in analysing the performance of the business in that more information is given regarding the operating activity of the business than was previously made available. The user is now able to see the impact on operations of acquisitions and discontinued operations, which enables an assessment to be made of these events on the future performance of the business.

(b) Leonardo Limited

Profit and loss account	period ending	g 30 September	19X8
-------------------------	---------------	----------------	------

	£000	£000
Turnover		6,840
Cost of goods sold $(1,200 + 3,670 - 950 + 68)$		(3,988)
Gross profit		2,852
Distribution costs		(880)
Administrative expenses (450+590)		(1,040)
Operating profit		932
Profit on sale of head office		1,200
Cost of fundamental reorganization		(560)
Profit before interest		1,572
Interest payable		(300)
Profit before taxation		1,272
Tax		(300)
Profit for the financial year		972

QUESTION	Tufton Ltd		
11.2	Cash flow statement for 20X1		
		£	£
	Net cash flow from operating activities (note 1)		314,20
	Returns on investment and servicing of finance:		
	Debenture interest paid		(30,00
	Taxation		-
	Capital expenditure and financial investment:		
	Purchase of property	(50,000)	
	Purchase of plant (note 2)	(528,600)	
	Sale of plant	169,500	
			(409,10
	Equity dividends paid		(50,00
	Financing:		
	Issue of debentures		100,00
	Decrease in cash (note 3)		(74,90
	Note 1: Net cash flow from operating activities	£	
	Retained profit for the year (427.1 – 395.8)	31,300	
	Add: Bonus issue of shares	100,000	

Divide	nds	60,000
Deben	ture interest (10% \times 300,000)*	30,000
Profit befo	ore interest	221,300
Adjustme	nts:	
Depre	ciation [†]	295,600
Loss o	n sale of fixed assets (169.5–202.5)	33,000
Increas	se in stock	(281,200)
Decrea	ase in debtors	17,800
Increas	se in creditors	27,700
		314,200
* Assumed	I that the issue of debentures was made at the s	tart of the year.
	tion for the year;	
Oper	ning balance	263,500
Less;	Depreciation on disposed asset	
	(390 – 202.5)	(187,500)
Add:	Depreciation for year (bal. fig.)	295,600
Closi	ng balance	371,600
Note 2:	Purchase of plant	£
	NBV Balance b/d forward from 20X0	394,800
	Less: Disposal at NBV	(202,500)
	Depreciation for year	(295,600)
	Purchase of plant (bal. fig.)	528,600
	NBV Balance at end of 20X1	425,300
Note 3:	Reconciliation of movement in cash	£
	Bank balance at end of 20X0	38,000
	Decrease in bank during year (bal. fig)	(74,900)
	Bank balance at end of 20X1	(36,900)

jordin plc Cash flow statement for 1997			QUESTION
	£	£	
Net cash flow from operating activities (note 1)		102,000	
Returns on investment and servicing of finance:			
Debenture interest paid		(16,000)	
Taxation:			
Tax paid		(18,000)	
Capital expenditure and financial investment;			
Purchase of fixed asset		(110,000)	
Equity dividends paid (note 2)		(28,000)	

Financing			
	of shares (note 3)	40,000	
Repay	ment of debentures	(40,000)	
Decrease	e in cash (note 4)		(
Note 1:	Net cash flow from operating activities*	£	
	Profit before interest and tax	86,000	
	Adjustments:		
	Depreciation (666,000 – 624,000)	42,000	
	Decrease in stock	3,000	
	Increase in debtors	(38,000)	
	Increase in creditors	9,000	
		102,000	
*Assume	I that debenture interest paid before redemption to	ook place.	
Note 2:	Equity dividends paid	£	
	Balance b/d forward from 1996	16,000	
	Balance b/d forward from 1996 Dividends for 1997	16,000 24,000	
	Dividends for 1997	24,000	
Note 3:	Dividends for 1997 Less: Balance c/f from 1997	24,000	
Note 3:	Dividends for 1997 Less: Balance c/f from 1997 Dividends paid	24,000 (12,000) 28,000	
Note 3:	Dividends for 1997 Less: Balance c/f from 1997 Dividends paid Cash flow from issue of shares	24,000 (12,000) 28,000	
Note 3:	Dividends for 1997 Less: Balance c/f from 1997 Dividends paid Cash flow from issue of shares Increase in share capital	24,000 (12,000) 28,000 \$\mathbb{\xx}\$ 30,000	
Note 3:	Dividends for 1997 Less: Balance c/f from 1997 Dividends paid Cash flow from issue of shares Increase in share capital	24,000 (12,000) 28,000 \$\mathcal{\mathcanc{\mathcal{\mathcal{\mathcal{\mathcanc{\mathcanc{\mathcanc{\m	
	Dividends for 1997 Less: Balance c/f from 1997 Dividends paid Cash flow from issue of shares Increase in share capital Increase in share premium	24,000 (12,000) 28,000 \$\frac{\mathcal{x}}{30,000} 10,000 40,000	
	Dividends for 1997 Less: Balance c/f from 1997 Dividends paid Cash flow from issue of shares Increase in share capital Increase in share premium Reconciliation of movement in cash	24,000 (12,000) 28,000 \$\frac{\polestimes}{2}\$30,000 10,000 40,000	

QUESTION	(a) 31 December	20X5	20X6	
12.2		£	£	
	Current assets	90,000	120,000	
	Less; Current liabilities	45,000	55,500	
	Working capital	45,000	64,500	
	Working capital ratio	2:1	2.16 : 1	
	(b) 31 December 20X6	£		
	Current assets per balance sheet	120,000		
	Current liabilities, assuming a working capital			
	ratio of 2: 1	60,000		
	Current liabilities per balance sheet	55,500		
	Maximum permissible dividend	4,500		

QUESTION 12.4

(c) The directors have made an additional net investment of £31,500 in fixed assets, but this is amply covered by the retained profits of £46,500 (£51,000 – dividend of £4,500) and the working capital ratio has been maintained at 2:1.

The financial policy pursued by the directors appears a little less sound when we look at the cash position. The heavy investment in stock has been at the expense of cash; debtors have also increased, but at a rate that is not unreasonable in relation to the other changes.

	Zeta	Omega
Profitability:		
Gross profit margin		
$\frac{\text{Gross profit}}{\text{Sales}} \times 100\%$	$\frac{1,000}{4,000} \times 100\% = 25\%$	$\frac{1,200}{1,200} \times 100\% = 20\%$
Sales	4,000	6,000
Net profit margin		
$\frac{\text{Net profit}}{\text{Sales}} \times 100\%$	$\frac{500}{4,000} \times 100\% = 12.5\%$	$\frac{400}{2}$ × 100% = 6.7
Sales	4,000	6,000
Return on capital employed		
$\frac{\text{Profit before interest and tax}}{\text{Capital employed}} \times 100\%$	$\frac{510}{100} \times 100\% = 26.2\%$	$\frac{800}{2}$ × 100% = 11.6
Capital employed	1,950	6,890
Return on equity		
Profit before tax Share capital and reserves × 100%	$\frac{500}{100\%} \times 100\% = 25.6\%$	$\frac{400}{100} \times 100\% = 5.8$
Share capital and reserves	1,950	6,890
Asset turnover		
Sales	$\frac{4,000}{1,950} = 2.1 \text{ times}$	$\frac{6,000}{6,890} = 0.9 \text{ times}$
Capital employed	1,950	6,890
Liquidity:		
Current ratio		
Current assets	1,350	1,880 _ 1.0 . 1
Current liabilities	$\frac{1,350}{1,200} = 1.1:1$	$\frac{1,880}{990} = 1.9:1$
Quick ratio		
Current assets – stock	$950 - 0.8 \cdot 1$	1,080
Current liabilities	$\frac{950}{1,200} = 0.8:1$	$\frac{1,080}{990} = 1.1:1$
Gearing		
Long-term loans × 100%	Nil _ nil	4,000 × 100% - 589
$\frac{\text{Long-term loans}}{\text{Capital}} \times 100\%$	$\frac{\text{Nil}}{1,950} = \text{nil}$	$\frac{4,000}{6,890} \times 100\% = 589$
Interest cover		
Profit before interest and tax	$\frac{510}{10} = 51 \text{ times}$	$\frac{800}{100}$ = 2 times
Interest charges	10	400

Working capital management		
Debtors days		
Trade debtors Sales × 365 days	$\frac{800}{}$ × 365 = 73 days	$\frac{900}{6,000} \times 365 = 55 \text{ days}$
Sales	4,000 × 303 = 73 days	$\frac{1}{6,000}$ $\frac{1}{6,000}$ $\frac{1}{6,000}$ $\frac{1}{6,000}$
Creditors days		
Trada araditara	900	800
Trade creditors	$\frac{800}{100} \times 365 - 91 days$	$\frac{600}{100} \times 365 = 61 days$
Trade creditors Purchases × 365 days	$\frac{800}{3,200} \times 365 = 91 \text{ days}$	$\frac{800}{4,800} \times 365 = 61 \text{ days}$
Purchases Stock turnover in days	$\frac{800}{3,200} \times 365 = 91 \text{ days}$	$\frac{800}{4,800} \times 365 = 61 \text{ days}$
Purcnases	$\frac{300}{3,200} \times 365 = 91 \text{ days}$ $\frac{300}{3,000} \times 365 = 37 \text{ days}$	

(b) **Profitability.** Zeta has a higher gross margin than Omega: this may be because of a different pricing policy. Zeta has a higher net margin than Omega: Omega's expenses are higher than Zeta's with a significantly higher interest charge. Zeta has a higher return on capital than Omega: Zeta's asset base is much lower than that of Omega.

Liquidity. The liquidity position of Omega is much healthier than Zeta's, with current assets being nearly twice as much as current liabilities. Zeta's position is quite poor with a lower current ratio and an even lower quick ratio. Nearly half of Zeta's current assets are in the form of stock, with the remainder being made up of debtors. The company has no cash at hand and so is relying on the sale of stock and receipts from debtors to improve its liquidity.

Working capital management. The stock turnover period for Zeta is much quicker than for Omega but this efficiency is being lost in that the number of days it takes them to collect their debts is more than 60. This lack of efficiency has an effect on the company's cash position which affects its ability to pay creditors. This is highlighted in the creditor days calculation, where it is taking Zeta 91 days to pay its debts. This could have an adverse effect on their relationship with suppliers and will do little to help their credit rating.

(c) Omega is highly geared, with over half its capital employed being in the form of debt. Debt has to be financed in the form of interest and capital repayments which makes the company vulnerable should profits begin to fall. Zeta is entirely financed by share capital and so no fixed return is required.

QUESTION	(a)	Hot	Ltd	Cold	Ltd
12.6		Year 1	Year 2	Year 1	Year 2
		£	£	£	£
	Profit before finance charges	110,000	190,000	110,000	190,000
	Loan interest	30,000	30,000	75,000	75,000
	Profit before tax	80,000	160,000	35,000	115,000
	Corporation tax	40,000	80,000	17,500	57,500
	Profit after tax	40,000	80,000	17,500	57,500
	Dividends	40,000	80,000	17,500	57,500

		Hot Ltd		(Cold Ltd
		Year 1	Year 2	Year 1	Year 2
(ł	o) Return on ordinary				
	shareholder's capital	10%	20%	7%	23%

(c) Changes in the relative performance of the companies over the two-year period are explicable in terms of the financial effects of gearing. Cold Ltd is relatively highly geared and a disproportionately large slice of the company's earnings is required to finance debt capital when profits are low. In year 1 the pre-tax return on long-term capital is 11 per cent (£110,000/£1,000,000 × 100) but the interest rate payable on loans is 15 per cent, producing a pretax return of only 7 per cent for the shareholders of Cold Ltd. This may be contrasted with Hot Ltd, where the claims of the debenture holders are far less and so the ordinary shareholders get more, in this case 10 per cent. This position alters as profits rise. Additional profits of £80,000 represent a return of 10 per cent on the investment made by the shareholders of Hot Ltd but 16 per cent on the shareholders of Cold Ltd's investment. Therefore, the return to the ordinary shareholders of Hot Ltd increases at only a slightly faster rate than profits before finance charges, whereas the return earned for the shareholders of Cold Ltd increases three times as quickly.

()	Calculation	- C
(2)	Calculation	Of Lative.

QUESTION 12.8

	Emerald	Garnet
Current ratio		
Current assets	$\frac{680}{380}$ = 1.79 : 1	$\frac{510}{520}$ = 0.98 : 1
Current liabilities	380	520
Quick ratio		
Current assets – stock	470 _ 1 24 : 1	$\frac{340}{520} = 0.65:1$
Current liabilities	$\frac{470}{380} = 1.24:1$	520
Debtors days		
$\frac{\text{Trade debtors}}{\text{Sales}} \times 365 \text{ days}$	$\frac{400}{1.075} \times 365 = 136 \text{ days}$	300 × 365 = 145 days
Sales	$\frac{1,075}{1,075}$ \(\text{ 303} = 130 \text{ days}	$\frac{-}{756}$ \(\times 303 = 143 \text{ days}
Return on capital employed		
$\frac{\text{Profit before interest and tax}}{\text{Capital employed}} \times 100\%$	235	87 × 100% - 19.9%
Capital employed	$\frac{1}{1,185}$ $\frac{100\%}{1,185}$	438
Return on equity		
Profit before tax	175	42 × 100% - 20.4%
$\frac{\text{Profit before tax}}{\text{Share capital and reserves}} \times 100\%$	1,085	138
Gearing		
Long-term loans	100 _ 8 40/	300
$\frac{\text{Long-term loans}}{\text{Total capital employed}} \times 100\%$	$\frac{100}{1,185} = 8.4\%$	$\frac{300}{438} \times 100\% = 68.5\%$
Interest cover		
Profit before interest and tax	235 _ 22.5 times	87 _ 2.9 times
Interest charges	$\frac{235}{10} = 23.5 \text{ times}$	30 - 2.9 times

Dividend cover		
Profit after tax	$\frac{175}{100}$ = 1.75 times	$\frac{42}{40}$ = 1.05 times
Dividends	100	40
Gross profit margin		
$\frac{\text{Gross profit}}{\text{Sales}} \times 100\%$	$\frac{360}{1,075} \times 100\% = 33.5$	$\% \frac{182}{756} \times 100\% = 24.1\%$
Net profit margin		
$\frac{\text{Net profit}}{\text{Sales}} \times 100\%$	$\frac{235}{1,075} \times 100\% = 21.99$	$\% \frac{87}{756} \times 100\% = 11.5\%$

(b) Profitability. Both companies show a profit, although Emerald's profit margins significantly exceed those of Garnet. The return on capital employed is virtually the same for both companies but Garnet's return on equity is much higher. This is because Garnet is more highly geared than Emerald.

Liquidity. Emerald has a good liquidity position, with both the current and quick ratios being at normal levels for a manufacturing company. Garnet, however, is in a weaker position, with both its ratios being below the industry norm. The existence of a large overdraft is the main cause of this.

Risk. Emerald has healthy profit margins, a comfortable liquidity position and a low level of gearing and may be considered a low risk company. Garnet, on the other hand, is very highly geared and therefore risky. Both the long term debt and the overdraft need financing, and with an interest cover of only 2.9 times the company is in a vulnerable position. Profits need only fall by a small margin to severely affect the company's ability to service the debt.

QUESTION	(a)	JK Ltd trading and profit and loss account	for the year to 31 March 199	93
12.10			£	£
		Sales		647,400
		Opening stock	15,400	
		Purchases	321,874	
		Carriage inwards	13,256	
		Less: Closing stock	(19,473)	
		Cost of goods sold		331,057
		Gross profit		316,343
		Carriage out	32,460	
		Electricity (6,994 + 946)	7,940	
		Business rates	8,940	
		Wages and salaries (138,292 + 2,464)	140,756	
		Postage and stationery	6,984	
		Rent (14,600 – 2,800)	11,800	

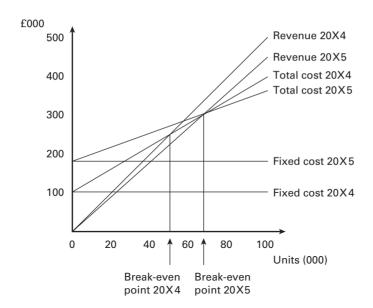
	Depreciation $(49,400 - 21,240) \times 25\%$	7,040		
			215,920	
			100,423	
	Deposit account interest		7,200	
	Net profit		107,623	
	Corporation tax		30,000	
			77,623	
	Dividend (50,000 \times £0.05)		2,500	
			75,123	
	Brought forward		76,597	
	Carried forward		151,720	
(b)	Balance sheet at 31 March 1993			
(-)		£	£	
	Fixed assets			
	Motor vehicles at cost		49,400	
	Less: Accumulated depreciation (21,240 + 7,040))	28,280	
			21,120	
	Current assets			
	Stock	19,473		
	Debtors	82,851		
	Deposit account (90,000 + 7,200)	97,200		
	Current account	77,240		
	Prepaid rent	2,800		
		279,564		
	Current liabilities			
	Creditors	41,936		
	VAT control	16,382		
	PAYE control	4,736		
	Accrued electricity	946		
	Accrued wages and salaries	2,464		
	Corporation tax	30,000		
	Dividend	2,500		
		98,964		
	Working capital		180,600	
			201,720	
	Financed by:			
	Ordinary shares of £1 each		50,000	
	Profit and loss account		151,720	
			201,720	
(c)	Debtors payment period = $(82,851/647,400) \times$	-		
	Creditors payment period = (41,936/321,894) >	_		
	Stock turnover period = $(19,473/331,057) \times 36$	5 = 21 days		

The company holds items in stock for an average of 21 days, and then has to wait a further 47 days to collect the money from debtors; this is a total of 68 days. However, credit of 48 days is received from suppliers, and this provides finance for the bulk of the time which it takes the company to turn stock into cash. The net result is that the company has to finance debtors for 68 - 48 = 20 days.

QUESTION	(a) Overhead anal	ysis sheet				
13.2		Basis of		Dept.	Dept.	
	Type of expenses	apportionment	Total	XX	YY	Stores
			£	£	£	£
	Rent and rates	Floor area	81,000	26,129	19,597	35,274
	Power	Cubic capacity	23,200	6,725	4,833	11,642
	Heat and light	Cubic capacity	11,740	3,403	2,446	5,891
	Salaries and wages	No. of employees	196,300	139,373	33,371	23,556
	Ins. and deprec'n					
	Buildings	Floor area	14,850	4,790	3,593	6,467
	Machinery	Value	28,750	5,500	21,000	2,250
	Office equipment	Floor area	5,000	1,613	1,210	2,177
	Misc. expenses	Equally	2,190	730	730	730
			363,030	188,263	86,780	87,987
	Salaries and wages		337,240	128,640	64,185	144,415
	Misc. expenses		24,860	12,210	6,875	5,775
	Recharge	Share requisition		119,088	119,089	(238,177)
			725,130	448,201	276,929	
	(b) Overhead reco	very rate:				
	Dept XX: £44	8,201/121,620 (labo	ur hours) =	£3.69 per la	bour hour	
	Dept YY: £276	5,929/46,000 (machin	ne hours) =	£6.02 per m	achine hour	
	(c)					
	(-)			XX		YY
	Labour hours per ur	nit 121,620/162,160		0.75		
	•	unit 46,000/322,000				0.143
	Units	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		162,160		322,000
				£		£
	Direct wages			891,880		144,900
	Direct material		2	2,043,216	5	5,924,800
	Direct cost		_	2,935,096	_	5,069,700
	Direct cost per unit		_	18.10	_	18.85
	Overhead cost per u	ınit				
	£3.69 × 0.75			2.77		
	$£6.02 \times 0.143$					0.86
	Other costs and pro	fit		1.80		1.80
	Selling price		_	22.67	_	21.51
	01		_		_	

13.6

Workings	Output = 0	Output = 100,000	QUESTION 13.4
20X4	,	1 '	
Revenue	0	£500,000	
Variable cost	0	£300,000	
Fixed cost	£100,000	£100,000	
Total cost	£100,000	£400,000	
20X5			
Revenue	0	£450,000	
Variable cost	0	£200,000	
Fixed cost	£180,000	£180,000	
Total cost	£180,000	£380,000	



(£000) QUESTION

(a) Payback period: Zero 1.75 years

Nemo 2.75 years

(b) Average annual profit: Zero (140 - 80)/4 = 15

Nemo (160 - 90)/4 = 17.5

Average capital employed: Zero 80/2 = 40

Nemo 90/2 = 45

Roce: Zero 15/40 = 37.5% Nemo 17.5/45 = 38.9%

(c)						
		20%	Proje	ct Zero	Proje	ct Nemo
		discount	Cash	Present	Cash	Present
		factor	flow	value	flow	value
	Year 1	0.833	50	41.65	30	24.99
	2	0.694	40	27.76	30	20.82
	3	0.579	30	17.37	40	23.16
	4	0.482	20	9.64	60	28.92
			_	96.42		97.89
	Less;					
	Initial investment			80.00		90.00
	NPV		_	16.42		7.89
(d)	Profitability index:	Zero 96.42/80	= 1.21			
	1	Nemo 97.89/90	0 = 1.09			

(e) Zero has a better payback period, NPV and profitability index, while Nemo gives a better return on capital employed. These results are consistent with the fact that Nemo's cash flow increases towards the end of its life, and these flows are given less weight by the former methods of appraisal. Zero appears to be the better investment.

12,000

QUESTION	1.	Cash forecast for three	months to 31 M	arch 19X6		
13.8			January	February	March	Total
			£	£	£	£
		Receipts:				
		Capital	5,000			5,000
		Cash sales	1,000	1,000	1,000	3,000
		Credit sales	_	2,000	3,000	5,000
			6,000	3,000	4,000	13,000
		Payments:				
		Fixtures and fittings	2,000			2,000
		Rent	1,500			1,500
		Expenses	400	400	400	1,200
		Drawings	300	300	300	900
		Purchases			4,000	4,00
			4,200	700	4,700	9,600
		Opening balance	_	1,800	4,100	_
		ADD: Receipts	6,000	3,000	4,000	13,000
		LESS: Payments	(4,200)	(700)	(4,700)	(9,600
		Closing balance	1,800	4,100	3,400	3,400
	2.	Forecast trading and pro	ofit and loss acco	ount three months	s to 31 March 1	9X6
				£		£
		Sales (W1)				12,000

Purchases (W2)

Cost of sales (sales – gross profit)		9,000
Gross profit (W3)		3,000
Rent $(0.5 \times 1,500)$	750	
Expenses	1,200	
Depreciation (W4)	125	
		2,075
Net profit		925
Forecast balance sheet at 31 March $19X6$		
	£	£
Fixed assets		2,000
At cost		125
Less: Depreciation		1,875
Current assets		
Stock	3,000	
Debtors	4,000	
Cash	3,400	
Prepaid rent	750	
	11,150	
Less;		
Current liabilities		
Creditors	8,000	
		3,150
		5,025
Financed by;		
Capital introduced		5,000
Profit		925
		5,925
Less: Drawings		900
		5,025
W1 3,000 (cash sales) + 5,000 (cash from	m debtors) + 4,000 (deb	tors) = $£12,000$
W2 3 (months) × £4,000 (purchases per n		
W3 £12,000 (sales) \times 25% (standard GP/s		

(a)	(i)	Total direct cost variance = $(£189,600 + £819,000) - (£19.05 [W1] \times$	£ (50,000) = 56,100 (U)	QUESTION 14.2
	(ii)	Material price variance =		
		(£1.20 [W2] – £1.25) 158,000	7,900 (F)	
		Material usage variance =		
		(158,000 - 150,000 [W3]) £1.25	10,000 (U)	

(iii) Labour rate variance = £ (£5.25 [W4] – £5.10) 156,000 23,400 (U) Labour efficiency variance = (156,000 - 150,000 [W5]) £5.10 30,600 (U) W1 [3.75 (£1.25 × 3) + £15.30 (£5.10 × 3)] W2 £189,600/158,000 W3 3 Kilos × 50,000 W4 £819,000/156,000 W5 3 hours × 50,000

(b) The calculations confirm the purchasing manager's claim: the 'very good terms' have resulted in a favourable material price variance of £7,900. However, this has been more than offset by an unfavourable usage variance of £10,000, possibly indicating that the cheaper materials are more difficult to work with.

The personnel manager's claims are *not* supported by the above calculations: the hourly wage rate is 15p above standard, resulting in an unfavourable variance of £23,400.

The production manager's opinions are also shown to be unsound: the labour force has taken 6,000 hours longer to do the work than anticipated, resulting in an unfavourable labour efficiency variance of £30,600, while material usage has been 8,000 kilos above standard.

- (c) Advantages of a system of standard costing;
 - The installation of a system of standard costing requires the company to review
 existing practices, and this often results in substantial improvements being made.
 - Standard costs are a more meaningful yardstick than the alternatives, which are to compare results with those of a previous year or a different company.
 - Variances are quickly identified, enabling corrective action to be taken before further losses are unnecessarily incurred.
 - There is a saving in management time in that attention is focused on problem areas.
 - The system identifies areas of achievement as well as difficulty, and draws management's attention to areas of success which the company must be able to exploit more fully.
 - The system provides cost consciousness; individuals know that standards have been set and that the financial results of their work are under scrutiny.

Disadvantages of a system of standard costing:

- Standard costing identifies variances, but investigation is required to discover the reasons for the variances.
- The cost involved in installing a system will be significant and need to be justified in terms of the benefits it will produce.
- Standard costing is an aid to good management but not an alternative to good management.

Item	Flexible			14
	budget	Actual	Variance	
Quantity produced (cubic metres)	1,150	1,150	0	
	£	£	£	
Revenue	115,000	120,750	5,750	
Variable costs:				
(items market V)				
Extraction fees	23,000	23,000	0	
Production wages	23,000	24,150	(1,150)	
Fuel etc., saws	1,150	1,035	115	
Fuel etc., tractors and winches	575	460	115	
Production expenses	1,438	1,495	(57)	
Depreciation:				
Saws	460	460	0	
Tractors and winches	1,725	1,725	0	
Total variable cost	51,348	52,325	(977)	
Contribution	63,652	68,425	4,773	
Fixed costs:				
Maintenance salaries	2,000	1,950	50	
Supervision salaries	3,000	2,800	200	
Management and admin. salaries	4,500	4,650	(150)	
Vans and trucks fuel etc.	250	275	(25)	
Maintenance expenses	1,500	1,550	(50)	
Management and admin. expenses	2,300	2,890	(590)	
Buildings expenses	850	720	130	
Depreciation:				
Vans and trucks	2,500	2,500	0	
Maintenance equipment	1,300	1,300	0	
Office equipment and furniture	950	950	0	
Total fixed costs	19,150	19,585	(435)	
Profit (loss)	44,502	48,840	4,338	

Memo

To: G.V. Singh

From: Administration Manager

Date: 4 June 1999

Subject: Monthly budgetary control reports

Phelan Forests Ltd's existing budgetary control reports compare the actual revenue and costs with a fixed budget, i.e. a budget which does not take into account the effect changes in output volume have on costs.

This causes two particular problems:

- (i) The variances for those costs which are variable are misleading. For instance, the production labour shows an adverse variance of £4,150 for May 1999, but as output was 15% higher than budget there is every likelihood that £3,000 of the variance is simply due to more hours being worked to obtain the higher output.
- (ii) The effect of volume changes on profit is hidden as variable costs are not grouped together but are included under their particular expense groupings. This means that it is difficult to identify the contribution made, or lost, by increases or decreases in the volume of timber produced.

The solution to these two problems is to adopt a marginal costing format and flexible budgeting.

A marginal costing format will group the variable costs together and subtract them from the revenue to obtain the contribution for the month. The fixed costs can then be subtracted from the contribution to obtain the profit. This approach will clearly identify the costs which can be controlled by the production manager(s), i.e. the variable costs such as production labour, and those which cannot be changed in the short term, i.e. the fixed costs such as management salaries. This should mean that managers can concentrate upon the costs which they can do something about, rather than being distracted by unavoidable fixed costs.

A flexible budget will adjust the budget for revenue, variable costs and contribution to take into account the volume of output. As a consequence, the variances which are shown on the budget report will be due to price or efficiency deviations and not caused by volume. This will mean that managers will be able to concentrate upon dealing with inefficiencies as the costs of these will be highlighted, instead of being masked by volume changes. For instance, the £3,000 adverse variance for extraction fees will disappear, but there will still be a £1,150 adverse variance on production labour to explain.