

# 2013 Accounting Higher - Solutions Finalised Marking Instructions

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# **2013 Accounting**

# **Higher – Solutions**

# Question 1

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Trading and Profit and Loss and Appropriation Account for year ended 31 December Year 4 ✓

icai 4 7					
	£000	£000		£000	
Sales				430	(1)
					. ,
Opening Stock		30	(1)		
plus Purchases		<u>246</u>	(1)		
		276			
less Closing Stock		<u>20</u>	(1)		
		256			
plus Warehouse Expenses		<u>16</u>	(1)		
COST OF SALES			. ,	<u>272</u>	
GROSS PROFIT ✓				158	
OROGOT ROTTI				100	
<b>-</b>					
<u>Plus Revenue</u>					
Dividends due from Investments		3	(1)		
Discounts		<u>4</u>	(1)	<u>7</u>	
				165	
Less Expenses					
Administration Expenses (36-2)		34	(2)		
			(2)		
Selling and Distribution Expenses		33	(1)		
Rent and Rates (5+1)		6	(2)		
Wages		40	(1)		
Debenture Interest (10% x 80)		8	(2)		
Provision for Bad Debts increase (6-5)		1	(2)		
Provision for Depreciation			• •		
Office Equipment (10% x 30)		3	(2)		
, , ,				400	
Motor Vehicles (20% x (50-10))		<u>8</u>	(2)	<u>133</u>	
NET PROFIT BEFORE TAX ✓				32	
less Corporation Tax				<u>8</u>	(1)
NET PROFIT AFTER TAX				24	
ADD Unappropriated Profit c/f				<u>10</u>	(1)
ABB Chapprophated Front 6/1				34	(1)
				34	
Less Appropriations					
Goodwill w/d		12	(1)		
Interim Ordinary Dividend		6	(1)		
Final Proposed Dividend - Ordinary Shares		<u>15</u>	(2)	<u>33</u>	
,		_	` /		
UNAPPROPRIATED PROFIT C/F ✓				4	(27)
UNAFPRUPRIATED PRUFIT G/F Y			=	1	(27)

Ralance	Sheet as	at 31	<b>December</b>	Year 4	✓
Dalalice	Olicel as	alJI	DECEILIBE	ı caı 🛨	

Balance Officer as at 51 December 1 car 4	0000		0000		0000	
FIVED AGOSTO	£000		£000		£000	
FIXED ASSETS	Cost		Depn		NBV	
Buildings	100		-10		110	(1)
Office Equipment	30		11		19	(1)
Motor Vehicles	50		18		32	(1)
					161	
Investments					70	(1)
Goodwill (20-12)					8	(1)
(==)					239	(-)
CURRENT ASSETS						
Vat	16	(1)				
Stock	20	(1)				
Debtors (60-6)	54	(2)				
Dividends due	3					
		(1)	0.5			
Admin Expenses prepaid	2	(1)	95			
LESS CURRENT LIABILITIES						
	4.5	(4)				
Proposed Final Ordinary Dividend Creditors	15 35	(1) (1)				
Bank Overdraft (6+1)	7	(2)				
Corporation Tax due	8	(1)				
Debenture Interest owing	8	(1)	73	<del>-</del>		
WORKING CAPITAL					22	
TOTAL NET ASSETS					261	
FINANCED BY:						
150,000 £1 Ordinary Shares					150	(1)
ADD RESERVES						
Revaluation Reserve			10	(1)		
Unappropriated Profit			1	(1)		
Share Premium (30-10)			20	(2)	31	
		•			181	
LONG TERM LIABILITIES						
10% Debentures					80	(1)
					261	
						(23)
						(F 0)
						(50)

#### Part A

#### (a) (i) Mark-up Ratio

Gross Profit =  $40\% \times £160,000 = £64,000$ 

(1) Cost of Sales = £160,000 - £64,000 = £96,000

Mark-up Ratio = 
$$£64,000/£96,000 \times 100 = 66.7\%$$
 (3)

#### (ii) Opening Stock

Rate of Stock Turnover = 10 times

(1)Average Stock = 96/10 = £9,600

Opening Stock = 
$$(9,600 \times 2) = £19,200 - £10,000 = £9,200$$
 (2)

#### (iii) Purchases

$$(2)$$
= £96,000 - £9,200 + £10,000 = £96,800
(2)

#### (iv) Return on Capital Employed

Capital = £120,000

Net Profit = Gross Profit - Expenses

Return on Capital Employed =  $32,000/120,000 \times 100 = 26.7\%$  (2) (4)

#### (v) Debtors Collection Period

$$(1)$$

$$12,000/120,000 \times 365 = 36.5 \text{ days}$$
(2)

#### (vi) Fixed Asset Turnover

Sales:Fixed Assets

$$160,000:80,000 = 2:1 \qquad (2)$$

(15)

#### (b) (i) Cost of Goods Sold

Rate of Stock Turnover = 12 times

Cost of Sales = 
$$12 \times £7,200 = £86,400$$
 (2)

#### (ii) Gross Profit

Sales - Cost of Sales = Gross Profit

$$(1)$$
£184,000 - £86,400 = £97,600 (2)

#### (iii) Purchases

Purchases = Cost of Sales - Opening Stock + Closing Stock

$$(1) \qquad (2)$$
= £86,400 - £10,000 + (2x £7,200 - £10,000) = £80,800 (3)

#### (iv) Expenses = 15% of Sales

$$15\% \times £184,000 = £27,600$$
 (2)

#### (v) Net Profit

**Gross Profit less Expenses** 

(10)

#### (c) Gross Profit Ratio

3 reasons for change in Gross Profit Ratio:

Cheaper Supplier
Bulk buying
Less wastage
Better stock control/more security/supervision
Increase in selling prices etc

(5)

Part B

#### Statement of Amended Net Profit at 31 December Year 2

(10)
(40)

# (a) Accumulated Fund at 1 January Year 2

Assets	£000	£000	
Subs in Arrears		2	(1)
Equipment		6	
Bar Stock		3 }	(1)
Bank		ر 12	
	•	23	
Liabilities			
Subs in advance	3 <b>(1)</b>		
Creditors for Bar Purchases	2 7		
Loan	10 <b>\(1)</b>		
Rent due on clubhouse	4	19	
	<u> </u>	4	(4)

# (b)(i) Bar Trading Account for the year ended 31 December Year 2 ✓

	£000		£000		
Bar Sales			21	(1)	
Less: Cost of sales					
Opening Stock	3	(1)			
Add Carriage on bar purchases	1	(1)			
Purchases for Bar (9 - 2 + 1)	8	(3)			
(1) (1) (1)	12				
Less: Closing Stock	2	(1)	10		
Gross Profit		_	11	-	
Less: Expenses					
Bar Wages (21/3)	7	(2)			
Electricity (10 * 3/5)	6	(2)	13		
Loss on Bar ✓			-2	-	(11)
		=		=	. ,

# (ii) Income and Expenditure Account the year ended 31 December Year 2 $\checkmark$

	£000		£000		
Income					
Profit on Dance (4 - 2)			2	(2)	
Profit on Raffle (3 - 1 - 1)			1	(2)	
Profit on Vending Machines (4 - 2)			2	(2)	
Subscriptions (60 (1) + 3 (1) + 4 (1))			67	(3)	
Life Membership Fees (20% * 20)			4	(2)	
			76		
Expenditure					
Loss on Bar	2	(1)			
Wages	14	(1)			
Coaches Honorarium	2	(1)			
Electricity (10 * 2/5)	4	(1)			
Stationery (2 (1) -1 (1))	1	(2)			
Rent of Clubhouse (24 – 4 (1) + 3 (1))	23	(2)			
Depreciation: Equipment (6 + (8 x 1/2) *10%	1	(3)	47		
Surplus ✓	' <u>'</u>		29		(22)
5 - F - 5 -					` /
Bank Balance at 31 December Year 2					
Opening Balance	12				
Add Receipts	115				
, (dd 1 (000)pt0	127	-			
Loca Daymonta					
Less Payments	87	(2)			(2)
	40	(3)			(3)

(c)

(40)

#### (a) Stakeholders

Any Government body (once only), Partners/Owners/Investors, Suppliers/Creditor, Banks, Customers, Local Community, Employees, Managers, Lenders etc

#### **Any 4 x 1 (4 marks max)**

(4)

#### **(b)** Procedure for admission of new partner

- Revaluation of Assets (1)
- Sharing of any profit or loss on revaluation among existing partners (1)
- Valuation of goodwill (1)
- Sharing of goodwill among existing partners (1)
- Goodwill can be written off between the new partners (1)
- Update capital accounts (1)

Revision of the partnership agreement to include the financial (1) details of the new partner – capital, drawings, interest on each, salary, premium for goodwill, and the new profit sharing ratio (1 max)

(4)

#### (c) Limited Partner

A Limited Partner is one who contributes capital to the partnership but has limited liability. (1) Limited partners may not take part in the management of the partnership (1) or make contracts on behalf of the partnership (1) or withdraw or receive back any part of the capital they have invested during the lifetime of the partnership. (1) One limited partner per partnership or if a LLP all partners were limited. (1 only) Max 2

(2)

(10)

#### (a) Duties of a financial accountant

- Reports to the owners of the firm the effect of managerial decisions on the performance of the firm (1)
- Keeps accurate records of the daily financial transactions of the firm (1)
- Checks the financial records to maintain accuracy and reduce fraud (1)
- Prepares periodic financial statements to show profit/loss, balance sheet etc (1)
- Prepares accounts for auditing and publication as and if required (1)
- Ensures that the firm is operating within the rules laid down by legislation from government or professional bodies (1)
- Taxation calculations (1)
- Ratio analysis (1)

(6)

#### Max 6

#### (b) Difference between Preference Shares and Ordinary Shares

Preference Shares	Ordinary Shares			
First to receive any dividend/return	Last to receive any dividend/return			
Dividends are a fixed rate	Dividends are at a variable rate			
First to be repaid capital	Last to be repaid capital			
No voting rights at AGM	Voting rights at AGM			
Dividends can be cumulative	Dividends not cumulative			
Shares can be redeemable	Shares are non-redeemable			
Less risky investment	More risky investment			

1 mark per line to a maximum of 4 (must be comparison)

(4)

(10)

#### **PART A**

(a)			<b>Product</b>		<b>Product</b>		<b>Product</b>		
			R		S		T		
			£000		£000		£000		
	(i)	Unit Selling Price	105	(1)	300	(1)	350	(1)	
	(ii)	Variable Cost	60	(1)	205	(1)	250	(1)	
	(iii)	Contribution	45	(1)	95	(1)	100	(1)	(9)
(b)	Total Machine Hours		8000 x 2	8000 x 2 16,000					(2)

(c) Year 3 hours = 16,000 Increase capacity - 25% = 4,000 New machine hours = 20,000

	Product R		Product S		Product T			
Contribution per machine hour Order of Priority Hours allotted Units	£45/2 £22.50 3 6,000 3,000	(2) (2)	£95/2 £47.50 2 8,000 4,000	(2) (2)	£100/2 £50 1 6,000 3,000	(1) (2) (2)		
Total Contribution less Fixed Costs Profit ✓	£135,000	(1)	£380,000	(1)	£300,000	(1)	£815,000 430,000 £385,000	(1) (17)

(d) New contribution per unit for R = £45 + £3 = £48 (1) New contribution per machine hour = £48/1 = £48 Order of Priority now T, R, S

	Product R		Product S		Product T			
Hours allotted Contribution per	8000	(1)	6000	(1)	6000			
machine hour Total contribution less Fixed Costs Maximum Profit	£48 £384,000	(2)	£47.50 £285,000	(2)	£50.00 £300,000	(2)	£969,000 430,000 £539,000	(1)

(e) Yes Profit has increased (2) (by (539,000 - 385,000) = £154,000) (2)

(40)

# PART B

(a) (i) Total losses = 
$$500 - 450 = 50 \text{ kg } (1)$$

Normal loss =  $4\% \times 500 = 20 \text{ kg } (1)$ 

Abnormal loss =  $50 - 20 = 30 \text{ kg } (1)$ 

(ii) Cost per kg = £8160/480 = £17 (3)

(2) (1)

(b) Cost per kg = (£8160 - £96)/480

= £16.80

Reduction  $\checkmark$  = 20p per kg (1) (4)

#### PART A

# Production Budget - July - October - Year 4

Sales plus Closing Stock	July 4,000 <u>1720</u>	4,300 1840	<b>September</b> 4,600 <u>2000</u>	5,000 1920	1 line
less Opening Stock	5,720 <u>1600</u>	6,140 <u>1720</u>	6,600 1840	6,920 2000	1 line
Production	<u>4,120</u>	<u>4,420</u>	<u>4,760</u>	<u>4,920</u>	(1 each) (6)

# Cash Budget for 2 months/August-September (Year 4) ✓

	August			
Opening Balance	12,000	(1)	50,460	
RECEIPTS				
Cash Sales	103,200	(1)	110,400	(1)
Credit Sales	51,840	(2)	55,728	(2)
Loan	30,000	(1)		
Ordinary Shares	10,000	(1)		
Share Premium	2,000	(1)		
Proceeds of Sale - Van	<u>6,800</u>	(2)		
TOTAL RECEIPTS	£203,840		£166,128	
PAYMENTS				
Materials	66,640	(1)	68,880	(1)
Labour	53,040	(1)	57,120	(1)
Variable Overheads (1)	22,100	(1)	23,800	(1)
Variable Overheads (2)	20,600	(1)	22,100	(1)
Fixed Overheads	3,000		3,000	(1)
Loan Repayment			2,500	(1)
Loan Interest			<u>125</u>	(2)
TOTAL PAYMENTS	£165,380		£177,525	
Closing Balance	£50,460		£39,063	(24)
				(30)

TOTAL SALES 155,040 166,128

## PART B

 (a) Stock at start
 150

 Purchases
 1,200

 1,350

 Less: issues
 1,160

 Stock at end
 190

 (3)

(b) £2.25 (1)

(c) Stock Record Card of Par72 for March

Stock Record Card of Par72 for Watch												
Date	Details	Receipts		Issues				Balance				
		Q	Р	V	Q	Р	V		Q	Р	V	
01-Mar	Balance								150	£2.00	£300	
04-Mar	Purchase	400	£2.10	£840					150	£2.00	£300	
									400	£2.10	£840	
08-Mar	Issue				300	£2.10	£630	(1)	150	£2.00	£300	
									100	£2.10	£210	
12-Mar	Purchase	400	£2.20	£880					150	£2.00	£300	
									100	£2.10	£210	
									400	£2.20	£880	
15-Mar	Issue				20	£2.10	£42	(1)	150	£2.00	£300	
					400	£2.20	£880	(1)	80	£2.10	£168	
21-Mar	Purchase	400	£2.25	£900					150	£2.00	£300	
									80	£2.10	£168	
									400	£2.25	£900	
29-Mar	Issue		·		40	£2.10	£84	(1)	150	£2.00	£300	
					400	£2.25	£900	(1)	40	£2.10	£84	
			·			·				·	£384	(

(6)

(10)

(40)

(a)	(i) & (ii)	A	В	C	X	Y	
		£	£	£	£	£	
	Rent	36,000	54,000	27,000	18,000	9,000	(2)
	Canteen Costs	•	22,500	18,000	9,000	4,500	(2)
	Power	40,000	96,000	24,000	-	-	(2)
	Heat and Ligh	t 9,000	13,500	6,750	4,500	2,250	(2)
	Machine						
	Insurance	1,500	4,500	3,000	-	-	(2)
	Indirect						
	Materials	7,720	7,517	13,910	8,730	3,155	(1)
		130,220	198,017	92,660	40,230	18,905	
	X	17,880	11,175	8,940	(40,230)	2,235	(2)
		148,100	209,192	101,600	-	21,140	-
	Υ	5,100	13,240	2,800	-	(21,140)	(2)
		153,200	222,432	104,400	•	, ,	• ,
		· · · · · · · · · · · · · · · · · · ·	•	,	•		(15)
							• /
(b)	Absorption rate (A)	= £153,200/38	3,300				
		= £4 (per labo	ur hour)				(2)
	Absorption rate (B)	=£222,432/26	5,480				
		= £8.40 (per m	nachine hou	r)			(2)
	Absorption rate (C)	=£104,400/10	•				
		= £10 (per lab	our hour)				(2)
							(6)
(c)	Quotation						
			1	££			
	Direct materia		_	192	(1)		
	Direct labour	A 30 x £8	240 <b>(3</b>	•			
		B 15 x £10	150 <i>(3</i>	-			
		C 6 x £9	54 <b>(3</b>	<u>)</u> 444			
	Overheads	A30 x £4	120 <b>(2</b>	?)			
		B10 x £8.40	84 <b>(2</b>	?)			
		C6 x £10	60 <b>(2</b>				
	Total Cost			900			
	Profit			600	(3)		
	Selling Price	$\checkmark$		1,500		19)	
	-					-	
						(	40)
						•	,

#### (a) <u>Assumptions of Break-even Analysis</u>

- All costs are classified as either fixed or variable (1)
- Variable costs vary directly with output (1)
- Fixed costs remain constant for all levels of output (1)
- Selling price per unit is constant (1)
- There is only one product (1)
- All production is sold (1)
- There are no changes in material or wages costs (1)

Max 4

#### (b) Profit Volume Ratio

The PV Ratio shows the relationship between contribution and sales (1)

The formula is Contribution (per unit)/Selling Price (x 100) (1)

The higher the ratio, the greater the profit (1)

The ratio can be improved by higher sales (or selling prices) or lower variable costs (or cost prices) (1) or by using a product mix which gives the maximum contribution (1)

The ratio can be used for any level of sales and net profit can be found by deducting fixed costs from contribution (1)

If a firm sells several products the ratio is useful to compare the profitability of each product (1)

PV ratio is constant (1)

Max 3

#### Margin of Safety

The Margin of Safety is the difference between the break-even point and actual sales revenue (1)

It can be stated in terms of units or in terms of sales revenue (1)

It may be expressed as a percentage of actual sales (1)

A narrow margin of safety denotes that a small fall in sales value can have a significant effect on profits (1)

A wide margin indicates a large fall in sales volume would be necessary before the BEP was reached. (1)

A wide margin of safety is desirable (1)

The margin of safety can be shown on a break-even chart to illustrate its size (1)

Max 3

(10)

#### (a) Factors to include when setting re-order quantities

- The level of demand for the product (1)
- Amount of discount for bulk-buying (1)
- The length of time for delivery (1)
- Cost of delivery (1)
- Cost of operating the stores eg wages (1)
- Risk of specification of the product changing (1)
- Risk of obsolescence (1)
- Deterioration or wastage of the product (1)
- Cost of insurance (1)
- Amount of capital tied up in stores (1)
- Legal restrictions on amount of stock of dangerous materials to be kept (1)
- Storage space (1)
- Maximum stock level (1)
- Rate of consumption/usage (1)

Max 4

#### (b) Opportunity Cost

This arises when a firm is working at full capacity and proposes to introduce a new product (1)

This arises when a firm has to decide whether to make or buy a product (1)

This would involve a reduction in the amount which could be made of an existing product (1)

The opportunity cost represents the amount of contribution lost by making less of the existing product (1)

The actual cost of making the new product will include the 'extra' or opportunity cost equal to the contribution lost *(1)* 

Max 3

#### Semi-variable Cost

A semi-variable cost includes an element of both fixed and variable costs (1)

Normally the fixed element is in the form of a standing charge (1) while the variable element depends on usage (1)

Examples include bills for gas, electricity and the telephone (1) (max)

Max 3

(10)

[END OF MARKING INSTRUCTIONS]