MyStudyBro - Revision Exercise Tool

This Revision Handout includes the Questions and Answers of a total of 5 exercises!

Chapters:

Break Even - Unit 2 (Pearson Edexcel)

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5 Loxton Pumps Ltd produces water pumps for vehicles. The company is owned by the Loxton family and has been trading for nearly 80 years.

The following information is available:

	November 2018	December 2018	January 2019
Units produced	48 000	39 000	50 000 (planned)
Total production costs	£785 830	£661 900	

Fixed costs per month and variable costs per unit stay the same for each month.

All production is sold.

The selling price of each water pump is £16.80

Required

- (a) Calculate the:
 - (i) variable cost per unit

(3)

(ii) fixed costs per month.

(3)

(b) Calculate the profit or loss for the month of December 2018.

(4)

- (c) Calculate, for the month of January 2019, the:
 - (i) break-even point in sales units

(4)

(ii) margin of safety in sales revenue.

(4)

- (d) Prepare a break-even chart for January 2019 using the graph. You should label the following:
 - fixed costs
 - total costs
 - sales revenue
 - break-even point
 - margin of safety, measured in sales revenue
 - profit or loss for the month.

(6)

Winter 2019

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Accounting Unit 2
WAC02 or WAC12

Past Paper

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At a board meeting in January, Robert Loxton stated "I am worried about the December figures. Should the company continue trading in the future?"

(e) Evaluate the statement made by Robert Loxton and recommend if Loxton Pumps Ltd should continue trading in the future.

(6)

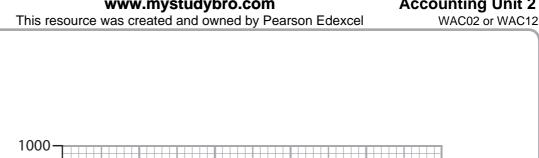
(Total for Question 5 = 30 marks)

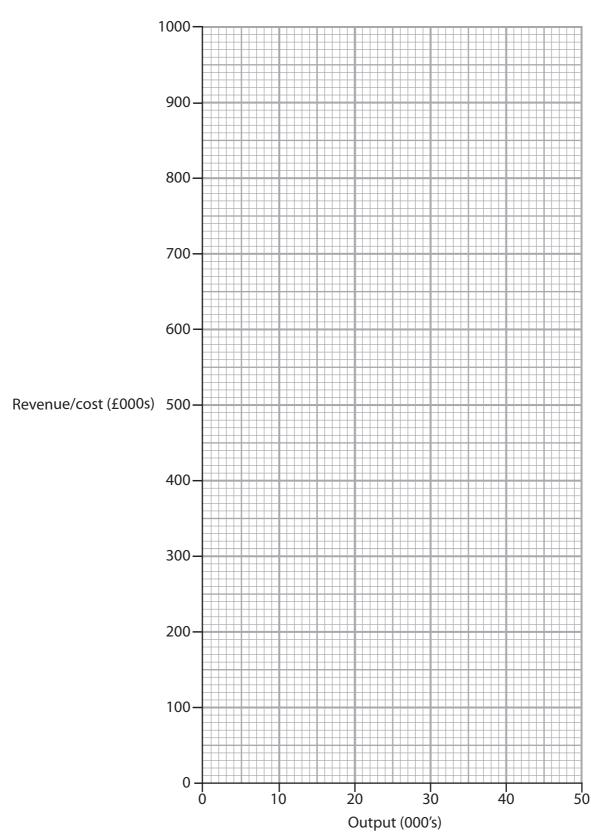
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Past Paper (Mark Scheme)

Question Number	Answer	Mark
5(a)(i)	AO3 (3) AO3: Three marks for calculating the variable costs per unit.	
	November December Total	
	Production cost £785 830 £661 900 Units produced 48 000 39 000	
	Difference £123 930 (1) AO3 9 000 (1) AO3	
	Variable cost Per unit £13.77 (1of) AO3	(3)

Question Number	Answer	Mark
5(a)(ii)	AO1 (2), AO2 (1) AO1: Two marks for calculation of variable cost and fixed costs figure for the subtraction. AO2: One mark for correct subtraction to give answer.	
	Variable cost £48 000 x £13.77= £660 960 for November (10f) AO2	
	Fixed cost £785 830 - £660 960 (1of) AO1	
	for November = £124 870 (1of) AO1	(3)

Past Paper (Mark Scheme)

Question Number	Answer	Mark
5(b)	AO2 (4) AO2: Four marks for correct calculation of profit or loss for the month.	
	<u>Profit for December</u>	
	Sales Revenue £655 200 (1) AO2 Less	
	Variable costs (£537 030) (1of) AO2	
	Fixed costs (£124 870) (10f) AO2	
	Loss for month (£6 700) (10f) AO	(4)

Question	Answer	Mark
Number		
5(c)(i)	AO3 (4) AO3: Four marks for correct calculation of break-even point in sales units.	
	Contribution per unit £16.80 - £13.77 = £3.03 (1of) AO3	
	Break even £124 870 (1of) AO3 = 41 212 units Point £ 3.03 (1of) AO3 (1of) AO3	(4)

Question	Answer	Mark
Number		
5(c)(ii)	AO1 (3), AO2 (1) AO1: Three marks for correct calculation of margin of safety in units and use of selling price. AO2: One mark for correct calculation of margin of safety measured in sales revenue.	
	Margin of safety (50 000 -41 212) (1of) AO1	
	= 8 788 units (1of) AO1	
	(8 788 x £16.80) (10f) AO1	(4)
	= £147 638.40 (1of) AO2	

Question Number	Answer	Mark
5(d)	AO2 (6) One mark each for correctly drawing on the graph the following: fixed costs total costs sales revenue break-even point margin of safety in sales revenue profit or loss for the month	
	Sales Revenue (1) #840 000 Margin of safety (1) #147 655 Break-even point (1) 41 211 units	
	Fixed Costs £124 870 (1) Output (000's)	(6)

Past Paper (Mark Scheme)

Question Number	Indicat	ive Content	Mark
5 (e)	AO4 (6). Own figure rule applies throughout.		
	Answers may include:		
	Case For Continuing Trading The company has achieved break-even point and made a profit in November. The planned production for January should yield a profit if all the units are sold. It may be that the company produces to order, which guarantees sales. Production may have been low in December because the company was shut for a holiday period for a week.		
	The cor	gainst Continuing Trading mpany made a loss in December. If this a regular occurrence, e company may have no future.	
	Other points The figures for January are only estimates - they could be better or worse for the company. What is the future order book like for the company. Does the company have past profits to keep the company solvent in periods of poor sales?		
	Decision	n mpany should/should not continue trading.	(6)
Level	Mark Descriptor		
	0	A completely incorrect response.	
Level 1	1-2	Isolated elements of knowledge and understanding which are recall based. Generic assertions may be present. Weak or no relevant application to the scenario set.	
Level 2	3-4	Elements of knowledge and understanding, which are applied to the scenario. Some analysis is present, with developed chains of reasoning, showing causes and/or effects applied to the scenario, although these may be incomplete or invalid. An attempt at an evaluation is presented, using financial and perhaps non-financial information, with a decision.	
Level 3	5-6	Accurate and thorough knowledge and understanding. Application to the scenario is relevant and effective. A coherent and logical chain of reasoning, showing causes and effects is present. Evaluation is balanced and wide ranging, using financial and perhaps non-financial information and an appropriate decision is made.	

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6 Hasana Kwemoi will start a business producing soft toys, on 1 April 2018. She has yet to decide whether to produce the toys in a small factory, or use workers to produce the toys at home.

The following information is available for the factory.

Rent of factory £1 290 per quarter (three-month period).

Direct materials for production £0.32 per toy.

Labour to be paid a **fixed** rate of £115 per week, working a 40-hour week.

Insurance per year £510

Loan interest £250 a month.

Delivery costs £0.02 per toy.

Other fixed costs £65 a month.

All production will be sold, selling at £1.99 per toy.

Each worker can produce 3 toys per hour and 5 workers are to be employed.

Production is over a full year of 52 weeks.

Required

(a) Calculate the number of toys to be produced and sold in the year ended 31 March 2019 to break-even if the toys are produced in the factory.

(9)

(b) Calculate the expected profit or loss by Hasana in the year ended 31 March 2019 if the toys are produced in the factory.

(3)

Past Paper

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The following information is available for production using workers at home.

Hasana would run the business from a small office and rent would be £425 per quarter.

Direct materials for production £0.32 per toy.

Labour would be paid a rate of £0.75 per toy produced.

Insurance would be £220 per year less than the factory.

Loan interest £125 a month.

Delivery costs £0.11 per toy.

Other fixed costs would be £25 a month less than the factory.

A motor van would have to be purchased for £5 000. This would last 8 years before being sold for £400.

All production will be sold at a selling price of £1.49 per toy.

Each worker would produce 20 toys a day, working for 5 days a week and 7 workers are to be employed.

Production is over a full year of 52 weeks.

Required

(c) Calculate the number of toys to be produced and sold in the year ended 31 March 2019 to break-even using workers to produce toys at home.

(9)

(d) Calculate the expected profit or loss by Hasana in the year ended 31 March 2019 using workers to produce toys at home.

(3)

(e) Evaluate the **two** possible production options for Hasana.

(6)

(Total for Question 6 = 30 marks)

TOTAL FOR SECTION B = 90 MARKS TOTAL FOR PAPER = 200 MARKS

Past Paper (Mark Scheme)

Level 3	5-6	Accurate and thorough knowledge and understanding. Application to the scenario is relevant and effective. A coherent and logical chain of reasoning, showing causes and effects is present. Evaluation is balanced and wide ranging, using financial and perhaps non-financial information and an
		and perhaps non-financial information and an
		appropriate decision is made.

Question Number	Answer	Mark
6 (a)	AO1 (3), AO2 (6) AO1: Three marks for calculation of rent, labour and total fixed costs. AO2: Six marks for calculation of remaining fixed costs, total variable costs, contribution and break-even point.	
		(9)

Fixed Costs	Rent (£1 290 x 4) = £5 160 (1) AO1 Labour (5 x £115 x 52) = £29 900 (1) AO1
	Insurance = £510
	Loan Interest (£250 x 12) = £3 000
	Other FC (£65 x 12) = $\underline{£780}$ (1)AO2 all three
	Total FC = £39 350 (1of)AO1
Variable Costs per	Direct materials = £0.32
unit	Delivery costs = $\underline{£0.02}$
	Total VC = £0.34 (1) AO2
Contribution per	(£1.99 - £0.34) = £1.65 (1of)AO2
unit	
Break-even point	39 350 (1of)AO2
	1.65 (1of) AO2
	= 23 849 units (1of) AO2

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Past Paper (Mark Scheme) This resource was created and owned by Pearson Edexcel

Question Number	Answer	Mark
6 (b)	AO3 (3) AO3: Three marks for calculation of profit.	
		(3)

Sales	31 200 x £1.99 = £62 088 (1) AO3
Less Fixed Costs	= (£39 350) of
Less Variable Costs	$(31\ 200\ x\ £0.34) = (£10\ 608)$ (1of)AO3 both
= Profit	= £12 130 (1of) AO3

Question	Answer	Mark
Number		
6 (c)	AO1(2), AO2 (6), AO3 (1)	
	AO1: Two marks for calculation of rent and	
	total fixed costs.	
	AO2: Six marks for calculation of three fixed	
	costs, total variable costs, contribution and	
	break-even point.	
	AO3: One mark for correct calculation of	
	depreciation.	(9)

Fixed Costs	Rent (£425 x 4) = £1 700 (1) AO1 Insurance = £290 Loan Interest (£125 x 12) = £1 500 Other FC (£40 x 12) = £480 (1) AO2 all three
	Depreciation (5 000 – 400)/8 = ± 575 (1)AO3 Total FC = ± 4545 (1of)AO1
Variable Costs per unit	Direct materials = £0.32 Delivery costs = £0.11 Direct labour = £0.75 Total VC = £1.18 (1)AO2
Contribution per unit	(£1.49 - £1.18) = £0.31 (10f)AO2
Break-even point	<u>4 545</u> (1of) AO2 £0.31 (1of) AO2
	= 14 662 units (1of)AO2

Past Paper (Mark Scheme)

Question Number	Answer	Mark
6 (d)	AO3 (3) AO3: Three marks for calculation of profit.	
		(3)

Sales	36 400 x £1.49 = £54 236 (1) AO3
Less Fixed Costs	= (£4 545) of
Less Variable Costs	$(36\ 400\ x\ £1.18) = (£42\ 952)\ (10f)AO3\ both$
= Profit	= £6739 (1of)AO3

Past Paper (Mark Scheme)

Question Number	Indicativ	e Content	Mark
6 (e)	Producin Profit is a home wo Output is Perhaps paying la variable Factory a difficult. Producin Break-even 23 849 up 9 187 un Output is Costs are possible Less cap Deliverin workers Production workers Other poor Figures a Decision Should poor output is Costs are possible Less cap Deliverin workers Production workers Other poor output is Costs are possible Less cap Deliverin workers Production workers Other poor output is Costs are possible Less cap Deliverin workers Other poor output is Costs are possible Less cap Deliverin workers Other poor output is Costs are possible Less cap Deliverin workers Other poor output is Costs are possible Less cap Deliverin workers Other poor output is Costs are possible Less cap Deliverin workers Other poor output is Costs are possible Less cap Deliverin workers Other poor output is Costs are possible Less cap Deliverin workers Other poor output is Costs are possible Less cap Deliverin workers Other poor output is Costs are possible Less cap Deliverin workers Other poor output is Costs are possible Less cap Deliverin workers Other poor output is Costs are possible Less cap Deliverin workers Other poor output is Costs are possible Less cap Delivering workers Other poor output is Costs are possible Less cap Delivering workers Other poor output is Costs are possible Less cap Delivering workers Other poor output is Costs are possible Less cap Delivering workers	greater at £12 130 compared to £6 739 using orkers. This is higher by £5 391 as 31 200 units with labour paid £0.95 per toy. It is possible to reduce break-even point by abour for every unit produced i.e. make labour a cost. Oremises need to be found, which may be gusing home workers Yen point is less at 14 662 units compared to units producing in the factory. This is lower by hits. It is 36 400 units with labour paid £0.75 per toy. It is lower, and the selling price is lower, but is it to increase the selling price? It is possible to reduce break-even point by hits. It is lower by hits. It is greater to to the factory of the business. It is it to increase the selling price? It is possible to reduce break-even point by hits. It is possible to reduce in the labour and fower by hits. It is possible to reduce break-even point by hits in the factory of the labour and the selling price is lower, but is it to increase the selling price? It is possible to reduce break-even point by hits in the factory of the labour and fower by hits. It is possible to reduce break-even point by hits in the labour and fower by hits. It is possible to reduce break-even point by hits in the labour and fower by hits in the factory. It is possible to reduce break-even point by hits in the labour and fower by hits in the factory. It is possible to reduce break-even point £0.95 per toy. It is possible to reduce break-even point £0.95 per toy. It is possible to reduce break-even point £0.95 per toy. It is possible to reduce break-even point £0.95 per toy. It is possible to reduce break-even point £0.95 per toy. It is possible to reduce break-even point £0.95 per toy. It is possible to reduce break-even point £0.95 per toy. It is possible to reduce break-even point £0.95 per toy. It is possible to reduce break-even point £0.95 per toy. It is possible to reduce break-even point £0.95 per toy. It is possible to reduce break-even point £0.95 per toy. It is possible to reduce break-even point £0.95 per toy. It is possible	
Level	Mark	Descriptor	(6)
	0	A completely incorrect response.	
Level 1	1-2	Isolated elements of knowledge and understanding which are recall based. Generic assertions may be present. Weak or no relevant application to the scenario s	

Winter 2018

Accounting Unit 2 WAC02 or WAC12

Past Paper (Mark Scheme)

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Level 2	3-4	Elements of knowledge and understanding, which are applied to the scenario. Some analysis is present, with developed chains of reasoning, showing causes and/or effects applied to the scenario, although these may be incomplete or invalid. An attempt at an evaluation is presented, using financial and perhaps non-financial information, with a decision.
Level 3	5-6	Accurate and thorough knowledge and understanding. Application to the scenario is relevant and effective. A coherent and logical chain of reasoning, showing causes and effects is present. Evaluation is balanced and wide ranging, using financial and perhaps non-financial information and an appropriate decision is made.

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WAC02 or WAC12

6 Wittwater Mining plc carries out regular reviews of its operations. The world price of gold has risen to £32 000 per kilo and is expected to stay at this level. This has resulted in Wittwater Mining plc considering reopening some gold mines that it had previously closed, as they were making a loss. These are the three gold mines in the Eastern Area. Wittwater Mining plc cannot sell at a price above £32 000 per kilo as customers would purchase from other suppliers.

The estimates for 2019 for the three gold mines in the Eastern area are nearing completion.

All production of gold is sold at the world price, of £32 000 per kilo.

The following information is available (some figures are given in total, others are given per kilo):

	Boksville mine	Igolide mine	Orange Deep mine
Revenue	To be calculated	To be calculated	£29 760 000
Direct labour	£17 500 000	£16 000 per kilo	£17 670 000
Direct materials	£7 000 000	£6 000 per kilo	£11 000 per kilo
Fixed costs	£10 500 000	£4 400 000	To be calculated
Production - kilos	700	550	To be calculated

Fixed costs for the Orange Deep mine are made up of the following:

- plant, property and equipment that cost £135 000 000 is being depreciated over 15 years, using the straight line method
- other fixed costs will be £5 880 000

Required

(a) Calculate the **total** estimated profit or loss for **each** gold mine for 2019.

(12)

(b) Calculate the estimated contribution, and the estimated profit or loss, made by **each** of the three gold mines, **per kilo produced**, for 2019.

(12)

(c) Evaluate the figures calculated in (b) to make a decision as to the future of **each** of the three gold mines.

(6)

(Total for Question 6 = 30 marks)

TOTAL FOR SECTION B = 90 MARKS
TOTAL FOR PAPER = 200 MARKS

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Accounting Unit 2

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WAC02 or WAC12

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Source material for Question 6 is on page 14 of the Source Booklet.

If you answer Question 6 put a cross in the box \square .

laolide mine

6 (a) Calculate the **total** estimated profit or loss for **each** gold mine for 2019.

Boksville mine

(12)

Orange Deep mine



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(b) Calculate the estimated contribution, and the estimated profit or loss, made by **each** of the three gold mines, **per kilo produced**, for 2019.

(12)

Per kilo	Boksville	lgolide	Orange Deep

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,	

Past Paper (Mark Scheme)

Level 3	5-6	Accurate and thorough knowledge and understanding.
		Application to the scenario is relevant and effective.
		A coherent and logical chain of reasoning, showing
		causes and effects is present.
		Evaluation is balanced and wide ranging, using financial
		and perhaps non-financial information and an
		appropriate decision is made.

Question Number	Answer	Mark
6 (a)	AO1 (5), AO2 (7) AO1: 5 marks for calculation of sales revenue and inclusion and calculation of fixed costs. AO2: 7 marks for calculation of direct labour and direct materials and profit or loss per mine.	
	Workings: Direct materials	
	$\frac{29\ 760\ 000}{32\ 000}$ = 930 kilos (1) AO2 x £11 000 per kilo	
	= £10 230 000 (1) AO2	
	<u>Fixed Costs</u>	
	$\frac{£135\ 000\ 000}{15}$ = £9 000 000 per year (1) AO1	
	+ £5 880 000 = £14 880 000 (1) AO1	(12)

					_	
	<u>Boksville</u>		<u>Igolide</u>		<u>Orange</u>	
			_		<u>Deep</u>	
Sales Revenue	22 400 000	(1) AO1	17 600 000	(1) AO1	29 760 000	
Direct Labour	17 500 000		8 800 000	(1) AO2	17 670 000	
Direct Materials	7 000 000		3 300 000	(1) AO2	10 230 000	(2) AO2
Fixed Costs	<u>10 500 000</u>		4 400 000		<u>14 880 000</u>	(2) AO1
						(1of)
Total costs	35 000 000		16 500 000		42 780 000	AO1
		(1of)		(1of)	· · · · · · · · · · · · · · · · · · ·	(1of)
Profit (Loss)	(12 600 000)	AO2	1 100 000	AO2	(13 020 000)	AO2

Question	Answer	Mark
Number		
6 (b)	AO2 (5), AO3 (7) AO2: 5 marks for calculation of direct labour, direct materials, and profit or loss per unit. AO3: 7 marks for calculation of sales revenue, contribution and fixed costs per unit.	
		(12)

	<u>Boksville</u>		<u>I golide</u>		Orange	
Per kilo			_		<u>Deep</u>	
Sales Revenue	32 000		32 000		32 000	(1) AO3
						all three
Direct Labour	25 000	both	16 000		19 000	(1) AO2
Direct Materials	10 000	(1) AO2	6 000		11 000	
				all three		both
		(1of)		(1of)		(1of)
Contribution	(3 000)	AO3	10 000	AO3	2 000	AO3
Fixed Costs	15 000	(1) AO3	8 000	(1) AO3	16 000	(1) AO3
		(1of)		(1of)		(1of)
Profit (Loss)	(18 000)	AO2	2 000	AO2	(14 000)	AO2

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Question Number	Indicativ	e Content	Mark	
6 (c)	AO4 (6)			
	Boksville	Boksville		
	Makes a r reopened (o/f)			
	Igolide			
		oositive contribution (o/f), so should be . Makes a profit (o/f), so should stay open in erm.		
	Orange D	еер		
	reopened	oositive contribution (o/f), so could be . However, makes an overall loss (o/f), so ot stay open in the long term.	(6)	
Level	Mark	Descriptor	(5)	
	0	A completely incorrect response.		
Level 1	1-2	Isolated elements of knowledge and under which are recall based. Generic assertions may be present. Weak or no relevant application to the sce		
Level 2	3-4	Elements of knowledge and understanding, which are applied to the scenario. Some analysis is present, with developed chains of reasoning, showing causes and/or effects applied to the scenario, although these may be incomplete or invalid. An attempt at an evaluation is presented, using financial and perhaps non-financial information, with a decision.		
Level 3	5-6	Accurate and thorough knowledge and understanding. Application to the scenario is relevant and effective. A coherent and logical chain of reasoning, showing causes and effects is present. Evaluation is balanced and wide ranging, using financial and perhaps non-financial information and an appropriate decision is made.		

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Jacinda started a business selling soft drinks from mobile freezers in sites popular with tourists. The town authorities have signed a contract that allowed Jacinda to sell drinks from four sites, for the seven summer months of the year, starting 1 March 2018. For the remaining five months, Jacinda does not trade.

The following information is available for the business for the year ended 28 February 2019:

• Each site will be rented for seven months of the year. Rent of site per month:

Downs Park	North Beach	Pavilion Park	South Beach
£100	£120	£80	£160

- Drinks are sold for £0.55 (55 pence) each
- Drink sellers receive £0.20 (20 pence) for each drink sold
- Insurance for the year is £1 250
- Drinks are purchased for £0.11 (11 pence) each from wholesalers
- The mobile freezers cost £2 700 each and are expected to last for nine years. Jacinda has one for each site and a spare in case of a breakdown
- A small storage warehouse is rented for £275 per quarter (three months).
 This warehouse is rented for a full year
- Electricity bill is £35 per month, for every month of the year
- As part of the contract, the town authorities will charge a local tax of £0.01 (1 pence) on every drink sold
- Loan interest and repayment is £285 per month, for every month of the year
- Sales for each site (drinks per day) are:

Downs Park	North Beach	Pavilion Park	South Beach
110	210	175	180

• Drinks are sold for 200 days of the year.

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WAC02 or WAC12

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Required

- (a) Calculate, for the year ended 28 February 2019, the:
 - (i) number of drinks that need to be sold to break-even

(11)

(ii) forecast profit for the year.

(5)

The following information is available for the second year of trading, ended 29 February 2020:

- Fixed costs will total £11 000 for the year
- Drinks will be purchased for £0.12 (12 pence) each
- The council will charge a tax of £0.02 (2 pence) for every drink sold
- Jacinda has promised the drink sellers a pay rise, for every drink sold, in the second year
- Target profit for the year will be £21 400
- The number of drinks sold will remain constant.

Required

- (b) Calculate, in order to achieve the target profit:
 - (i) the required contribution per drink sold

(5)

(ii) a suitable pay rate to pay sellers for each drink sold, and a selling price for each drink sold.

(3)

The town authorities require all businesses that sign a contract with them to produce audited financial statements for their inspection.

(c) Evaluate the decision of the town authorities requiring Jacinda's business to produce audited financial statements for inspection.

(6)

(Total for Question 5 = 30 marks)

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Accounting Unit 2
WAC02 or WAC12

Past Paper (Mark Scheme)

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Question Number	Answer	Mark
5 (a)(i)	AO1 (4), AO2 (7) AO1: Fourmarks for calculation of site rent, electricity, total fixed costs, and variable costs per unit. AO2: Seven marks for correct calculation of warehouse rent, depreciation, loan interest, contribution per unit, and break-even point	
		(11)

Fixed Costs - per year

Variable costs per unit (0.20 + 0.11 + 0.01)

Total £0.32 per unit **(1)AO1**

Rent $(£460 \times 7) = £3 220 (1) AO1$

Insurance = £1 250 Warehouse (£275 x 4) = £1 100 **(1) both AO2**

Depreciation $£2700 \times 5 = £1500$ (1) AO2

9

Electricity (£35 x 12) = £ 420 **both** Loan (£285 x 12) = £3 420(1) AO2 Total FC £10 910 (1 of) AO1

Contribution per unit

(£0.55 - £0.32) (1 of)AO2= £0.23 (1 of) AO1

Break Even Point = $\frac{£10\ 910}{(1\ of)}\ AO2 = 47\ 435\ drinks (1\ of)\ AO2$ £0.23 (1\ of)\ AO2 This resource was created and owned by Pearson Edexcel

Question	Answer	Mark
Number		
5 (a)(ii)	AO2 (5)	
	AO2: Five marks for correct calculation of	
	profit for 2019	(5)

Question	Answer	Mark
Number		
5 (b)(i)	A01 (1) A03 (4)	
	AO1: One mark for totalling target profit and	
	fixed costs.	
	AO3: Four marks for including target profit	
	and fixed costs, and three marks for	
	calculating the required contribution per unit	(5)

135 000 o/f x Contribution per unit = £32 400 (1) AO3

Contribution per unit = $\frac{£32\ 400}{135\ 000}$ = £0.24 (1of)AO3 = £0.24 (1of)AO3

Question Number	Answer	Mark
5 (b) (ii)	AO3 (3) AO3: Three marks for calculating a selling price 38 pence above labour cost (as long as labour cost is above 20 pence)	
		(3)

Selling price – Variable costs = Contribution

SP - (Labour cost per drink +
$$0.12 + 0.02$$
) = £0.24 (1) AO3

So selling price must be £0.38 higher than labour cost (1) AO3

For example Selling price £0.60 and labour cost £0.22 (1) AO3

(Accept any answer where selling price is £0.38 higher than labour cost, as long as labour cost is above 20 pence (£0.20))

Past Paper (Mark Scheme)

Question Number	Indicativ	ve Content	Mark	
5 (c)	AO4 (6)			
	Case for The town the number would all Jacinda is requirem future could business	Case for The town authorities could see a true and fair view of the number of drinks sold by the business. This would allow them to charge an accurate tax on Jacinda's business. Jacinda is assured she is meeting all necessary requirements and disclosures, which may ensure future contracts for Jacinda. It will help Jacinda ensure a smooth running of the business helping her e.g. control costs, planning, decision making.		
	staff to stime and Jacinda her account Loss of continuous Decision It would	authorities would have to pay a member of tudy the audited accounts, which would cost	(6)	
Level	Mark	Descriptor	(8)	
Level	0	A completely incorrect response.		
Level 1	1-2	Isolated elements of knowledge and und which are recall based. Generic assertions may be present. Weak or no relevant application to the so		
Level 2	3-4	Elements of knowledge and understanding, which are applied to the scenario. Some analysis is present, with developed chains of reasoning, showing causes and/or effects applied to the scenario, although these may be incomplete or invalid. An attempt at an evaluation is presented, using financial and perhaps non-financial information, with a decision.		

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Level 3	5-6	Accurate and thorough knowledge and understanding. Application to the scenario is relevant and effective. A coherent and logical chain of reasoning, showing causes and effects is present.
		Evaluation is balanced and wide ranging, using
		financial and perhaps non-financial information and
		an appropriate decision is made.

Question Number	Answer	Mark
6 (a)(i)	AO1 (3) AO1: Three marks for correct calculation of total ordinary dividend paid.	
	Total ordinary dividend paid = Dividend per share x number of shares	
	= 6 pence (1) AO1 x 15 000 000 (1) AO1 = £900 000 (1) AO1	
		(3)

Question	Answer	Mark
Number		
6 (a)(ii)	AO3 (3) AO3: Three marks for correct calculation of share price.	
	Share price = Earnings per share x Price/earnings ratio	
	= 15 pence (1) AO3 x 8.4 times (1) AO3 = £1.26 (1) AO3	
		(3)

Question Number	Answer	Mark
6 (a)(iii)	AO2 (3) AO2: Three marks for correct calculation of dividend yield.	
	Dividend yield = <u>Dividend per share</u> Market price of a share	
	= <u>6 pence</u> (1) AO2 x 100 126 pence (1 of) AO2	
	= 4.76%(1 of)AO2	(3)

SECTION B

Answer THREE questions from this section.

- 3 Soundz Around won a contract to supply 35 000 headphone sets in its first year of trading to a multinational retailer. You are the Cost Accountant, and the following information is available for Year 1:
 - factory rent was £7 275 per quarter (three months)
 - material costs per headphone set £3.85
 - direct labour costs per headphone set £5.35
 - electricity £6 500 per year plus 3 pence (£0.03) per headphone set
 - insurance for the whole business was £220 per month
 - other fixed costs were £2 980 per month
 - each headphone set sells for £14.99
 - the business operates for 50 weeks in a year.

Required

- (a) Calculate, for Year 1, the break-even point in:
 - (i) sales units

(8)

(ii) sales revenue.

(2)

- (b) Calculate, for Year 1, the:
 - (i) margin of safety in sales revenue

(3)

(ii) profit for the year.

(4)

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The following figures are estimated for Year 2:

- factory rent will rise to £7 500 per quarter (three months)
- insurance for the whole business will rise by 10%
- other fixed costs will rise by £125 per month
- material costs will rise by 2 pence (£0.02) per headphone set
- labour costs will rise by 5 pence (£0.05) per headphone set
- output and sales are to remain at 35 000 headphone sets
- all other costs and the selling price will remain the same.

The owner of Soundz Around wishes to see the Year 2 estimated figures on a graph.

- (c) Prepare and label the following on the graph in the Question Paper:
 - fixed costs
 - total costs
 - sales revenue
 - break-even point
 - margin of safety, measured in sales units
 - angle of incidence
 - profit for the year.

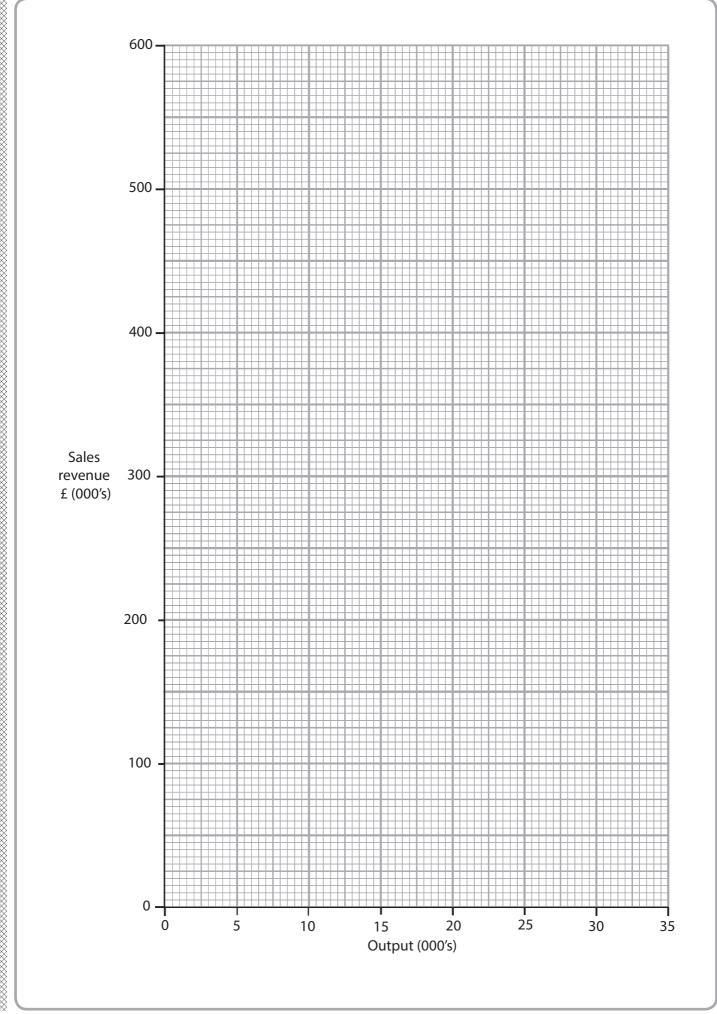
(7)

(d) Evaluate the use of ICT in break-even analysis.

(6)

(Total for Question 3 = 30 marks)

Past Paper



Past Paper (Mark Scheme)

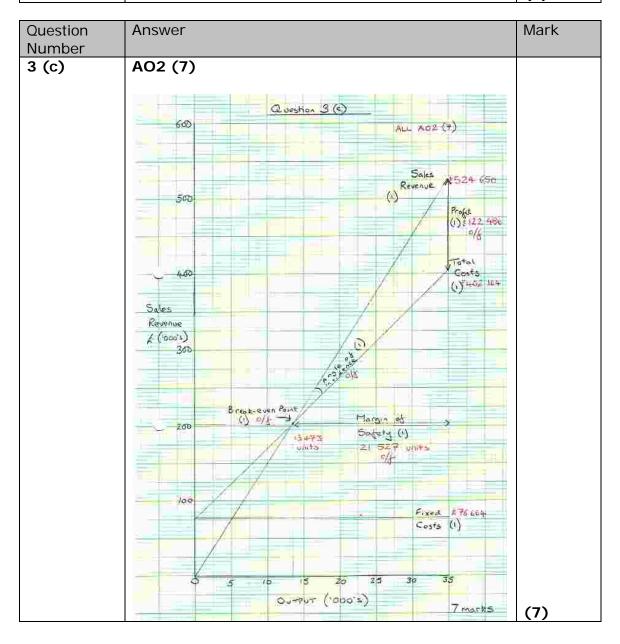
Question Number	Answer	Mark
3 (a)(i)	AO1(4), AO2 (1), AO3 (3) AO1: Four marks for correct calculation of fixed and variable costs. AO2: One mark for correct calculation of contribution. AO3: Three marks for correct calculation of break-even point.	
	Fixed Costs	
	25.75 5.7 (1) 7.65	(8)

Question Number	Answer	Mark
3 (a) (ii)	AO2 (2) AO2: Two marks for correct calculation of break-even point in sales revenue.	
	Break even point (£) = (12 848 o/f x 14.99) (1) AO2 = £192 591.52 (1) o/f AO2	(2)

Question Number	Answer	Mark
3 (b)(i)	AO1(1), AO3 (2) AO1: One mark for correct calculation of margin of safety. AO3: Two marks for analysis of data to help calculation of margin of safety.	
	Margin of safety = (35 000 x 14.99) (1) AO3 - 192 591.52 (1) o/f AO3 = £524 650 - £192 591.52 o/f = £332 058.48 (1) o/f AO1	(3)

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Question Number	Answer	Mark
3 (b) (ii) AO2 (2), AO3 (2) AO2: Two marks for correct calculation of contribution and profit. AO3: Two marks for analysis of data to help calculation of contribution and fixed costs.		
	Profit Contribution (£5.76 o/f x 35 000) (1) AO3 $= £201 600 o/f (1) AO2$ Less FC $= (£74 000) o/f (1) AO3$ Profit $= £127 600 o/f (1) AO2$	(4)



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Question Number	Answer		Mark
3 (d)	AO4 (6 Case fo	•	
	Decision ICT is v	 Financial cost of hardware, software, staff training, running costs, maintenance etc. If staff are not trained or are unskilled, they can make errors, which may lead to generation of incorrect information. Security risks if management or company wish to keep the information confidential. Computer crashes, freezes etc which may result in a loss of information and waste of staff time. ery advantageous for break-even analysis. cision should be supported by reference to ints of their argument. 	(6)
Level	Mark	Descriptor	
Level 1	1-2	A completely incorrect response. Isolated elements of knowledge and understanding that are recall based. Generic assertions may be present. Weak or no relevant application to the scenario set.	
Level 2	3-4	Elements of knowledge and understanding, which are applied to the scenario. Some analysis is present, with developed chains of reasoning, showing causes and/or effects applied to the scenario, although these may be incomplete or invalid. An attempt at an evaluation is presented, using financial and perhaps non-financial information, with a decision.	
Level 3	5-6	Accurate and thorough knowledge and under Application to the scenario is relevant and experience A coherent and logical chain of reasoning, so causes and effects is present. Evaluation is balanced and wide-ranging, use financial and perhaps non-financial information an appropriate decision is made.	ffective. howing sing