

INTRODUCTION	3
1. BREAK-EVEN	4
INTRODUCTION (BREAK-EVEN)	4
METHOD OF INVESTIGATION (BREAK-EVEN)	4
FINDINGS (BREAK-EVEN)	4
SUMMARY (BREAK-EVEN)	8
RECOMMENDATION (BREAK-EVEN)	8
2. MARGINAL COSTING	8
INTRODUCTION (MARGINAL COSTING)	8
METHOD OF INVESTIGATION (MARGINAL COSTING)	9
DESCRIPTION	9
FINDINGS (MARGINAL COSTING)	9
SUMMARY (MARGINAL COSTING)	11
RECOMMENDATION (MARGINAL COSTING)	11
2.1. PART TWO OF MARGINAL COSTING	12
INTRODUCTION (PART TWO OF MARGINAL COSTING)	12
METHOD OF INVESTIGATION (PART TWO OF MARGINAL COSTING)	12
FINDINGS (PART TWO OF MARGINAL COSTING)	12
GROSS PROFIT	12
NET PROFIT	12
CONCLUSION (PART TWO OF MARGINAL COSTING)	13
RECOMMENDATION (PART TWO OF MARGINAL COSTING)	13
3. INVESTMENT APPRAISAL	14
INTRODUCTION (INVESTMENT APPRAISAL)	14
METHOD OF INVESTIGATION (INVESTMENT APPRAISAL)	15
FINDINGS (INVESTMENT APPRAISAL)	15
CONCLUSION (INVESTMENT APPRAISAL)	17
RECOMMENDATION (INVESTMENT APPRAISAL)	18
4. BUDGETARY CONTROL	19
INTRODUCTION (BUDGETARY CONTROL)	19
METHOD (BUDGETARY CONTROL)	19
FINDING (BUDGETARY CONTROL)	19
CONCLUSION (BUDGETARY CONTROL)	25
RECOMMENDATION (BUDGETARY CONTROL)	26
4.1 BUDGETARY CONTROL PART B	27
INTRODUCTION (BUDGETARY CONTROL PART B)	27
METHOD (BUDGETARY CONTROL PART B)	27
FINDINGS (BUDGETARY CONTROL PART B)	27
CONCLUSION (BUDGETARY CONTROL PART B)	30
RECOMMENDATION (BUDGETARY CONTROL PART B)	30
5. STANDARD COSTING AND VARIANCE ANALYSIS	30
INTRODUCTION (STANDARD COSTING AND VARIANCE ANALYSIS)	30
METHOD (STANDARD COSTING AND VARIANCE ANALYSIS)	30
FINDINGS (STANDARD COSTING AND VARIANCE ANALYSIS)	31

CRITICAL EVALUATION	32
CONCLUSION (STANDARD COSTING AND VARIANCE ANALYSIS)	32
RECOMMENDATION (STANDARD COSTING AND VARIANCE ANALYSIS)	32
6. OVERHEAD ABSORPTION & JOB COSTING	33
METHOD OF INVESTIGATION (OVERHEAD ABSORPTION & JOB COSTING)	34
FINDINGS (OVERHEAD ABSORPTION & JOB COSTING)	34
CONCLUSION (OVERHEAD ABSORPTION & JOB COSTING)	35
APPENDIX 1	36
BREAK-EVEN	36
APPENDIX 2	37
MARGINAL COSTING	37
APPENDIX 3	38
INVESTMENT APPRAISAL	38
APPENDIX 4	39
BUDGETARY CONTROL	39
APPENDIX 5	40
STANDARD COSTING	40
APPENDIX 6	41
OVERHEAD ABSORPTION AND JOB COSTING	41

Management Accounting Report

TO: Jenny Clarke

FROM: Merita Myrtollari

REF: The Oakdene Engineering

DATE: 5th of March 2003

Introduction

The purpose of this report is to help making decisions and recommendations to Oakdene Engineering limited company to develop new products. Finding out if the company will make profit and not have a bad effect on other products. Management accounting techniques will be taken in to consideration to produce this report. The ways that will be used to help the Oakdene Engineering limited company are by using:

1. Break-even
2. Marginal costing
3. Investment appraisal
4. Budgetary control
5. Standard costing and variance analysis
6. Overhead absorption and job costing

Using these management accounting techniques the company will be able to know advantages and disadvantages of the problems that will be mentioned on the report.

1. Break-even

Introduction (Break-even)

The first problem of the company is to find out if the company will make a profit if they developed a new type of electronic dispenser for serving exact quantities of beer and lager. The first accounting technique that will be used is the break-even.

Method of investigation (Break-even)

To investigate this problem I am going to use:

1. Table
2. Graph
3. Calculation

Findings (Break-even)

The costs shown below are the main costs that I will use to carry my investigation.

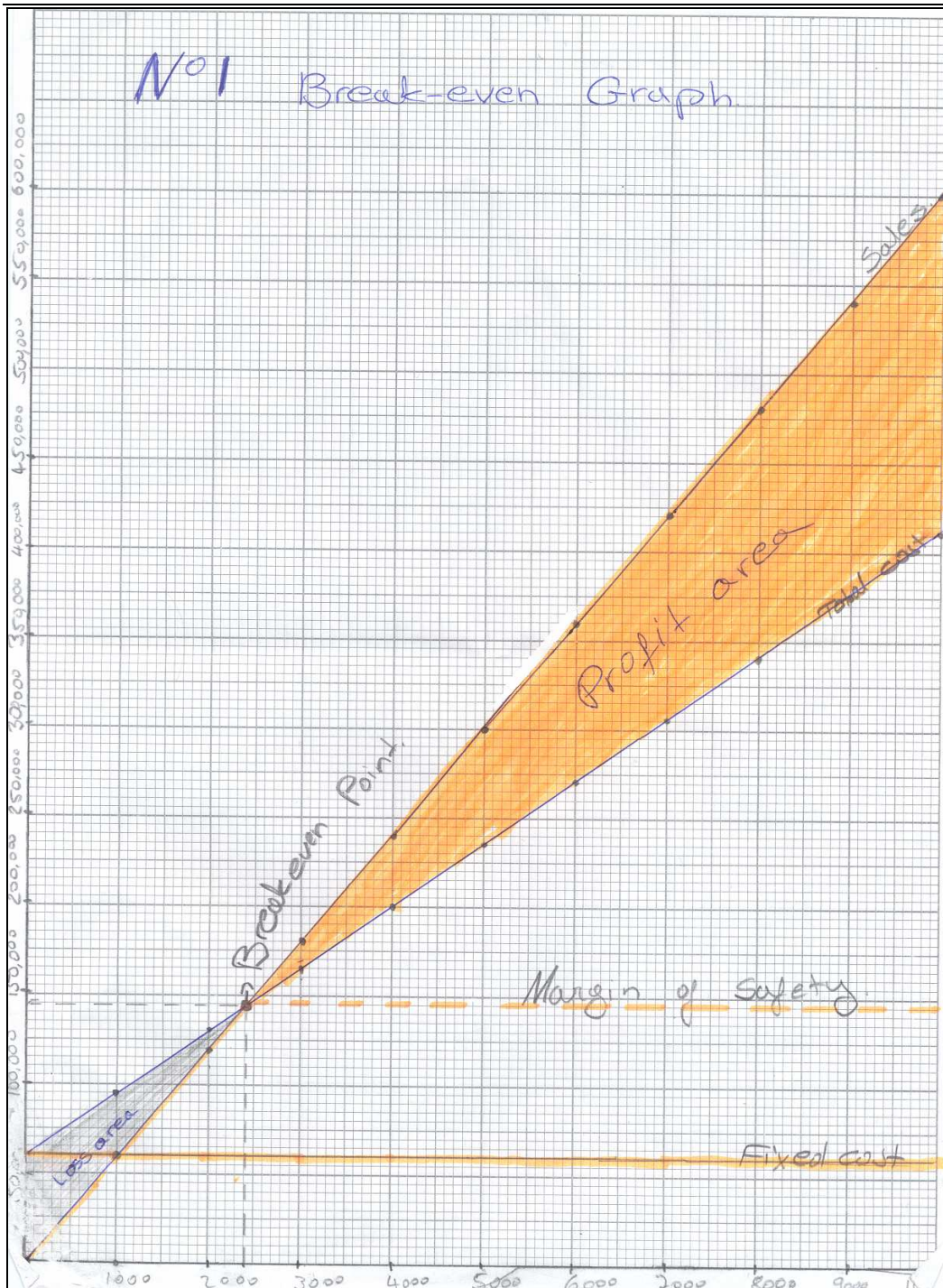
- Material cost - £20 per unit
- Labour cost - £15 per unit
- Selling price - £60 per unit
- Fixed costs - £60,000 per annum
- The maximum number of the units of the product per annum is 10,000.

This is a table that will show the calculated profit or loss.

Units of product	Variable costs	Fixed costs	Total costs	Sales	Profit/loss
1,000	35,000	60,000	95,000	60,000	(35,000)
2,000	70,000	60,000	130,000	120,000	(10,000)
3,000	105,000	60,000	165,000	180,000	15,000
4,000	140,000	60,000	200,000	240,000	40,000
5,000	175,000	60,000	235,000	300,000	65,000
6,000	210,000	60,000	270,000	360,000	90,000
7,000	245,000	60,000	305,000	420,000	115,000
8,000	280,000	60,000	340,000	480,000	140,000
9,000	315,000	60,000	375,000	540,000	165,000
10,000	350,000	60,000	410,000	600,000	190,000

The bolded figures on this table show where we start to make a profit but think that point is too risky to be the Margin of the safety. That is the reason I recommend the company to try and sell more than 3,000 products.

On the graph Number one I will show the breakeven point and the margin of safety. The calculations below show prove the answer of the graph.



Selling price £60 take away the variable cost £35 equal gross profit per unit £25. Fixed costs £60,000 divided by contribution £25 equal £2,400.

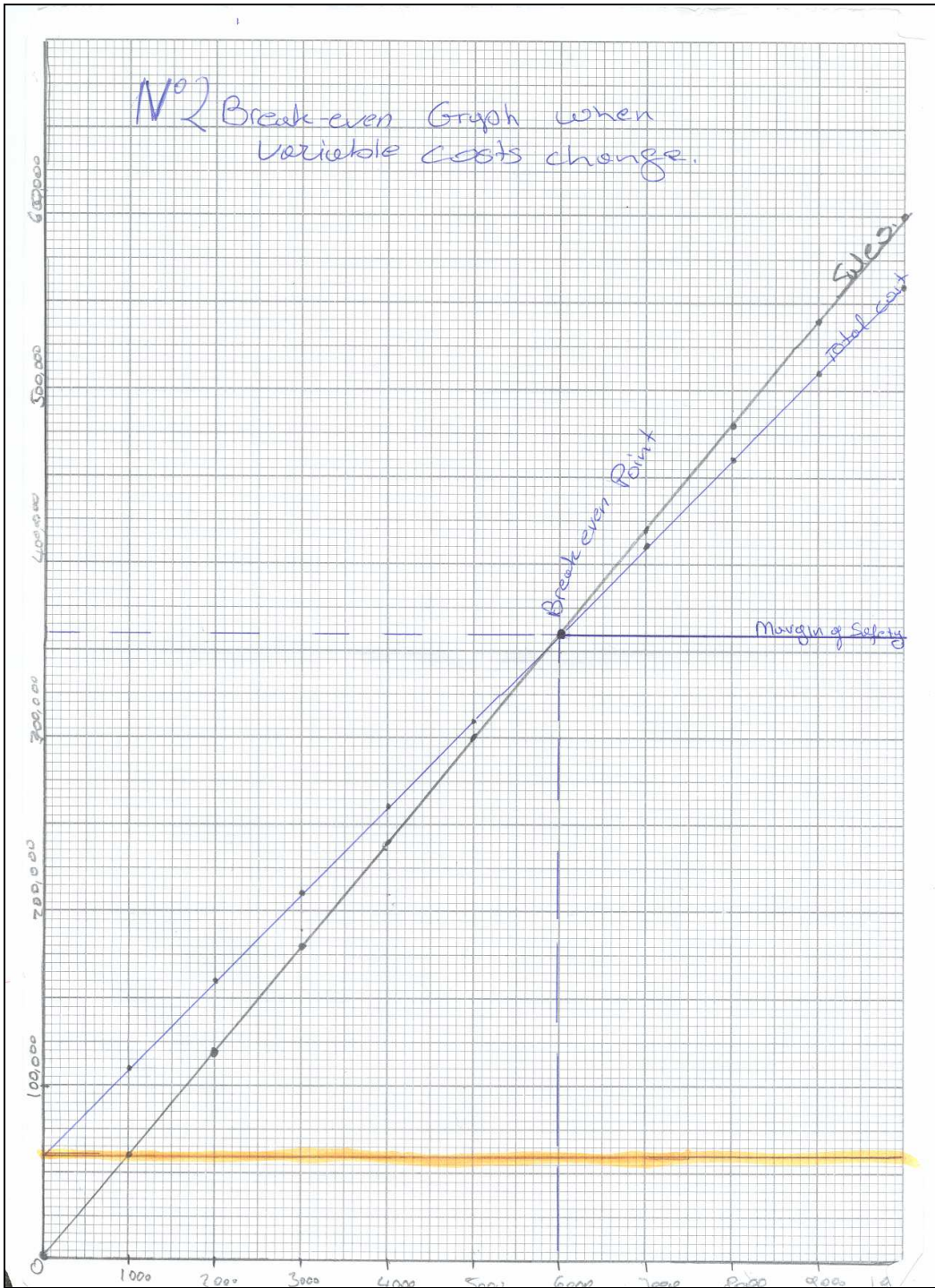
If 2,000 dispensers are sold then the company have a loss of £10,000, but if 6,000 dispensers are sold then the company will have a profit of £90,000.

When the production is at 10,000 dispensers per annum the margin of the safety in units will be 7,600 units or 76%, because 10,000 take away 2,400 equal 7,600.

The maximum profit that can be earned for the year is £190,000 but if the variable costs are increased by £5 per unit for labour and £10 per unit for materials the maximum profit will be £40,000 as shown on the table below.

Units of production	Variable costs	Fixed costs	Total costs	Sales	Profit/loss
1,000	50,000	60,000	110,000	60,000	(50,000)
2,000	100,000	60,000	160,000	120,000	(40,000)
3,000	150,000	60,000	210,000	180,000	(30,000)
4,000	200,000	60,000	260,000	240,000	(20,000)
5,000	250,000	60,000	310,000	300,000	(10,000)
6,000	300,000	60,000	360,000	360,000	00,000
7,000	350,000	60,000	410,000	420,000	10,000
8,000	400,000	60,000	460,000	480,000	20,000
9,000	450,000	60,000	510,000	540,000	30,000
10,000	500,000	60,000	560,000	600,000	40,000

The graph Number two will show the breakeven and the margin of safety when the variable cost change.



The maximum profit that the company can make when the variable costs have raised by £15 per product is £40,000 per annum.

Summary (Break-even)

This product is going to be successful and make a reasonable profit for the company, but if the variable cost goes up by £15 then this product is going to be too risky for the company. This is because the company has to sell at least 6,000 dispensers to cover fixed and variable costs. The company has to sell at least 7,000 dispensers to make a profit of £10,000 per annum.

Recommendation (Break-even)

1. According to the breakeven table, graph number one and the calculation the project that the company is developing is going to be successful and is going to make a maximum profit of £190,000 (if it goes according the graph). The break-even and the margin of safety point is at £2400. The only problem that the company will have at this point is that 1,000 dispensers must be sold to cover the fixed cost and 7,000 dispensers to cover the total costs.
2. If the variable cost will rise by £15 the company will not be able to make more than £40,000 profit. At this point the company profit will be at risk as the margin as safety will be hard to reach. The company has to sell 10,000 dispensers to cover the total costs that will leave the company with a profit of £40,000. So at this point I recommend the company to increase the selling price from £60 to £70 per unit because if the company sells 10,000 dispensers the profit will be £140,000. The calculations are: $£70 - £50 = £20$. $£20 * 10,000 \text{ unit} = £ 200,000$. $£200,000 - £60,000 = £140,000$ net profit.
3. The problem is that we do not have a fact that the company will manage to sell all the dispensers that will be produced.
4. The only reason that might make this product successful is that there are a number of public houses in England that might be interested to buy the product to make sure that they charge for beers and lagers as much as they are worth.
5. I recommend the company to do some research on how many dispensers minimum are needed in England. If there are needed more than six thousand dispensers I recommend the company to go ahead with the project in this case if the variable cost raise the fixed cost will still be covered.

2. Marginal Costing

Introduction (Marginal costing)

The Oakdeen Engineering makes a standard food mixer with a selling price of £525 each. The company has been asked to make a special offer of 400 food mixers for Jarvis Hotel Group. The amount of money that the hotel has offered is £78,000 for the 400 food mixers. The question is that should the company accept the offer and what are the advantages and disadvantages of this special order?

The Marginal costing technique will be used to find out the problem.

Method Of Investigation (Marginal costing)

For this problem the methods of investigating are:

1. Table
2. Graph
3. Calculations

The costs used to manufacture one food mixer are:

Description	Fixed	Variable
Materials and components		£48
Direct wages		£84
Other direct costs		£27
Supervisory wages	£42	
Factory overheads	£65	£16
Selling and distributing costs	£47	£14
TOTAL	£154	£189

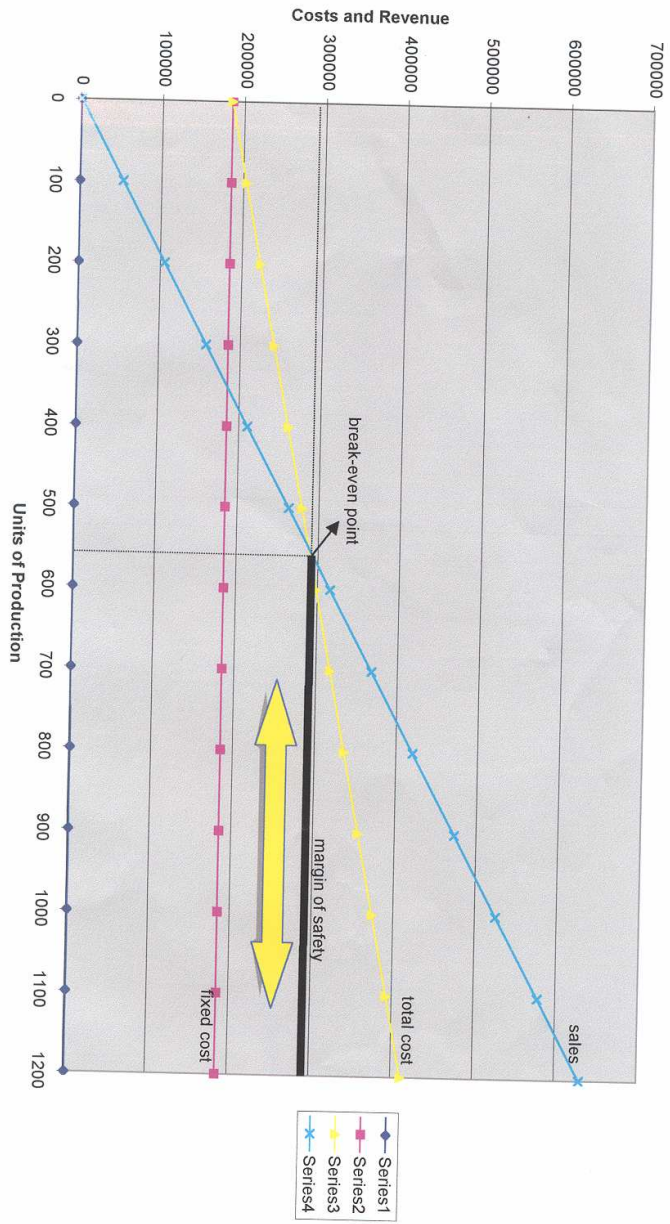
Findings (Marginal costing)

The Jalvis hotel has offered £78,000 for 400 food mixers. Dividing the 400 food mixers by the amount of the money offered, one food mixer for this offer would cost £195. The marginal cost as previously shown is £189. That will give the company an extra profit of £6 per food mixer, which we multiply the £6 by 400 food mixer and it gives the company a total of £2400 extra profit.

The table below will show the calculations for the monthly production and it will show the profit and loss. The table shows that the company will make a profit if they sell 600 food mixers for one month.

The graph attached to the assessment will show the breakeven point which is at 550 food mixers.

Marginal Costing



Units	Variable cost	Fixed cost	Total cost	Sales	Profit/ loss
0	0	184800	184800	0	-184800
100	18900	184800	203700	52500	-151200
200	37800	184800	222600	105000	-117600
300	56700	184800	241500	157500	-84000
400	75600	184800	260400	210000	-50400
500	94500	184800	279300	262500	-16800
600	113400	184800	298200	315000	16800
700	132300	184800	317100	367500	50400
800	151200	184800	336000	420000	84000
900	170100	184800	354900	472500	117600
1000	189000	184800	373800	525000	151200
1100	207900	184800	392700	577500	184800
1200	226800	184800	411600	630000	218400

Summary (Marginal costing)

This offer means extra profit to the company. It is a very good offer, and it is hard to make the right decision as it might affect the company in different ways.

Recommendation (Marginal costing)

1. This offer is a bit risky because other hotels and organisation might come and ask to buy the products at the same price as the above offer. And if you do not agree with them then they might go somewhere else.
2. The Jalvis hotel might ask for discount and the next time that they will need an order because you did it once you will do it again.
3. If the company is going to go ahead with this offer I recommend that the food mixers have a thinner layer than the normal ones and in that way the hotel can not complain because the company can explain that is the quality for how mach they are paying for.
4. Another thing that might work is that the company should allow discount to all the customers that are willing to buy 400 food mixers or more.
5. If we reduce prices that will only cover the costs of the business to attract new customers it will be difficult to persuade customers to pay more later on.
6. People might not want to buy the product at reduced price as they might think that it is something wrong with it e.g. the quality, not long lasting life etc.
7. Other companies might take advantages and sell the same product for less when you decide to go back to the original selling price.

8. If the company will consider point 3 and 4 of the recommendation I recommend the company to go ahead with this order. If the company does not think that is a good idea then the company should refuse the order as that will put the company in a risk.

2.1. Part two of Marginal costing

Introduction (Part two of Marginal costing)

After seeing advertising on a trade association journal, that an overseas manufacturer can supply similar food mixers for £250 each, the Managing Director of Oakdene Engineering argues that it will be cheaper if the company closed the production department and have the overseas supplier to supply the food mixers. To him it might be a very good idea but he has not looked at the advantages and disadvantages of that serious decision that he wants to make.

Method of investigation (Part two of Marginal costing)

To convince the managing director we need to use:

1. Table
2. Calculation

Findings (Part two of Marginal costing)

To help and advice the Managing director to make the right decision the table below will show if buying or manufacturing is will be more profitable.

	Making £	Buying £
Sales 1200 x £525	630,000	630,000
Less making variable costs 1200 x £189	(226,800)	
Less buying variable costs 1200 x £264		(316,800)
Gross profit	403,200	313,200
Less fixed costs S/d £47 Factory overheads and storage £65 x 1200	(184,800)	(134,400) this is the minimum amount that fixed cost and it can be more but we do not have all information needed to find out the right amount.
Net profit	218,400	178,800
Special order	If you make the food mixers you can allow special orders that will put the net profit up.	If the company is buying the food mixers then they do not have the chance of doing special orders.

The table above shows that at the end of the month the company will have more net profit if it makes the food mixers itself rather than buying them.

Conclusion (Part two of Marginal costing)

As an accounting assistant I strongly disagree with the decision that the managing director what to make and the reason for this is that he has no in depth information about the manufacturer. If the managing director decides to go ahead with his idea then the company is going to be in a serious trouble.

Recommendation (Part two of Marginal costing)

To make the decision I recommend the managing director to consider the points that will be shown below.

1. If the company wants to develop the product then it will not have the choice if the products are bought but it can easily be done if the company is making the product itself.
2. The food mixer that the overseas manufacturer manufactures might not be a very good quality.
3. The company must make sure that the supplier is reliable and can be trusted because after you get the first order he might say that he can not produce as many food mixers as you want.
4. The company director must be aware that it costs a lot of money to import the products and that you have to pay tax so you can import.
5. The deliveries might delay when you really need some products to sell, and that can drive your customers away.
6. The currency might inflate and the variable costs of the business will go up.
7. Customers sometime lose confidence when the products change.
8. You have to consider and make sure that no slave and child labour is involved on making the food mixers.
9. Once the company is relying at the supplier the prices could go up and that will affect the company profit.
10. By closing the production line the company will affect badly the local community.
11. Because the employees of the production are going to be redundant the unemployment rate locally will be high.

12. Less people working less money will be spend so the company will have a bad affect and to other businesses as well.
13. The government help it will be necessary for unemployed people, and they might move away to find jobs.
14. The number of crimes in the local area will rise and people will not feel safe.
15. Staff moral will change because they will think than when is their turn to be redundant.
16. If the company closes the production line and will not be profitable by buying the food mixers will be very difficult to reopen the production line again this is because:
 - People will not go to work there again as the company reputation, after making all these people redundant, will be very bad.
 - They will not trust the company.
 - Other businesses might offer better pay to them.
17. If the company still decides to go ahead with their decision I recommend the company to offer voluntary early retirement to employees in different sections of the company.
18. Train the remaining staff from the production to work at the other sections that old members of staff accepted early retirement.

3. Investment Appraisal

Introduction (Investment Appraisal)

The Oakdene Engineering has 250 employees. They are having a difficulty and now need to re-develop some of the activities. There are three projects within the company, which they are called Alpha, Beta and Delta.

The company has decided to invest money on only one of the projects. Before investing the money the company wants to know which of the projects is going to be more successful.

The Alpha project has already been examined, now we have to examine both Beta and Delta project and compare the three of them and decide on which project should the money be invested.

Method of investigation (Investment Appraisal)

To do this examination in behalf of the company the following will be used:

- Tables
- Formulas
- Calculation including percentages

Findings (Investment Appraisal)

For this examination to end up successful we will need to use the three ways of investment appraisal that are:

- Pay back period
- Accounting rate return
- Net present value

Pay back period

BETA

The expected life for the Beta project is five years. The cost of Beta project is £700,000, to find out how many years to pay that money back we have to add up the inflow of the project until it adds up to £700,000.

In the first year the Beta project has an inflow of £210,000.

In the second year the inflow for Beta project is £280,000, which adds up to £490,000.

This means that we have to have another £210,000 to complete the pay back amount. From the third year which has an inflow of £245,000 we need to take £210,000 to make the total of £700,000.

The calculations below will help to find out exactly how long it takes to pay the money back.

$\frac{£210,000 \text{ (the money taken from year three)}}{£245 \text{ (inflow of year three)}} * 100 = 86\%$

$86\% / 12 \text{ months} = 10.3 \text{ months}$.

For Beta project to pay the money back it takes two years ten point three months.

DELTA

Delta project is expected to live for at least four years. The initial cost of this project is £630,000. The same process as above has to be carried out to find the pay back period for the Delta project.

On the first years the Delta project has an inflow of £210,000, to make the to £630,000 we will need another £420,000. On the second year the project has an inflow of £230,000, which adds up to £440,000 so, we need to take some more money from the third year of the project. We have taken £190,000 from the third year to make the total of £630,000.

The calculation below will show how long it takes Delta project to pay the money back.

We know that it took a full two years and some months of the third year.
 $\frac{£190,000 \text{ (money taken from the third year)}}{£330,000 \text{ (the total inflow of the third year)}} * 100 = 57.5\%$
 $57.5\% / 12 \text{ months} = 6.9$

The pay back period for the Delta project is two years and six point nine months.

Accounting rate return

To find out the accounting rate return we will add up the inflow for the both beta and Delta project and we will divide it by the number of the years that they are expected to live and then we will divide the total by the initial cost which then we will multiply by one hundred divided by one.

Beta

Cash inflow time	£
Year one	£ 210, 000
Year two	£ 280, 000
Year three	£ 245, 000
Year four	£ 228, 000
Year five	£ 192, 000
Total	£ 1155, 000

The calculation below will help to find the account rate return.

$\frac{£1155, 000 \text{ (total inflow of Beta)}}{5 \text{ (the time of how long it took for the inflow)}} = £ 231,000 / £ 700,000 \text{ (the initial cost)}$
 $= 0.33 * 100 = 33 / 1 = 33\%$

Delta

Cash inflow time	£
Year one	£ 210, 000
Year two	£ 230, 000
Year three	£ 330, 000
Year four	£ 330, 000

Total	£ 1100, 000
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The calculation below will prove the account rate return for the Delta project.
 $\text{£}1100,000$ (the total inflow) / 4 (time of how long it took for the total inflow) = $\text{£}275,000$ / $\text{£}630,000$ (the initial cost) = $0.43 * 100 / 1 = 43.6\%$.

Net present value

Beta

Time	Cash flow	Multiply	Discount Factors	Equal	Discounted Cash Flow
Year 0	0	X	0	=	£700,000
Year 1	£210,000	X	0.877	=	£184,170
Year 2	£280,000	X	0.769	=	£215,320
Year 3	£245,000	X	0.675	=	£165,375
Year 4	£228,000	X	0.592	=	£134,976
Year 5	£192,000	X	0.519	=	£99,648
Total					£799,489
Net present value					£99,489

The net present value for the Beta project is going to be £99,489

Delta

Time	Cash flow	Multiply	Discount factors	Equal	Discount cash flow
Year 0	0	X	0	=	£630,000
Year 1	£210,000	X	0.877	=	£184,170
Year 2	£230,000	X	0.769	=	£176,870
Year 3	£330,000	X	0.675	=	£222,750
Year 4	£330,000	X	0.592	=	£195,360
Total					£779,150
Net present value					£149,150

The net present value for the Delta project is going to be £149,150

Conclusion (Investment Appraisal)

By using three calculating methods for the two projects Beta and Delta, and by using the results of the Alpha project I have come to the conclusion where I can sow the best results.

The results for the three projects are:

Project name	Alpha	Beta	Delta
Pay back time	3 years 5 months	2 years 10.3 months	2 years 6.9 months
Net present value	£25,985	£99,489	£149,150
Accounting rate return	25%	33%	43.6%

As shown on the table above the best results are coming from the Delta project. The Delta project is expected to live for only four years, it has the lowest initial cost and is going to bring to the company more profit than Alpha or Beta is going to bring for five or six years.

Recommendation (Investment Appraisal)

Bearing in mind the results from the conclusion we will expect that the Delta project will have more advantages than the two other projects.

The advantage of the Alpha project is:

- It is expected to live longer than the other two projects.

The disadvantages of the Alpha project are:

- It has the lowest amount for the net present value.
- It takes longer to pay the money back.
- It has the lowest percentage on the accounting rate return.

The advantage of the Beta project is:

- If you keep the project going, not a lot of the employees will be made redundant

The disadvantages of the Beta project are about the same as the Alpha project.

The advantages of the Delta project are:

- It has the quickest payback time
- It has the highest percentage on the account rate return
- It has the highest net present value

The disadvantage of the delta project is:

- It will not last long

By comparing the figures and calculations I recommend the company to go ahead with the Delta project.

The reasons for that are:

- It has the lowest initial cost
- It will bring more money to the company than the two others
- It will pay quickly than others

- It will last one to two years than the other two projects, which means that the company will not need to employ a lot of people.

4. Budgetary control

Introduction (Budgetary control)

Oakdene Engineering produces testing units for measuring the output of X-ray machines and lasers.

Each year all the departments within the company produce budgets for their departments to help the financial director to produce the master budget.

After producing the budgets we have to advice Oakdene Engineering of what action should they take over the proposed increased in selling price.

Method (Budgetary control)

The methods used are:

- Calculations
- Reports
- Formulae

Finding (Budgetary control)

The sales budget below will show the total sales at the current price and the total sales at the increased price.

MONTHLY SALES BUDGET

	Current price £1,200		Increased price £1,320	
Month	Unit	£	Unit	£
January	90	£108,000	80	£105,600
February	110	£132,000	90	£118,800
March	120	£144,000	100	£132,000
April	120	£144,000	100	£132,000
May	100	£120,000	80	£105,600
June	100	£120,000	80	£105,600
July	90	£108,000	90	£118,800
August	80	£96,000	80	£105,600
September	90	£108,000	90	£118,800
October	120	£144,000	120	£158,400
November	150	£180,000	150	£198,000
December	130	£156,000	130	£171,600
Total	1300	£1,560,000	1190	£1,570,800

As shown on the sales budget, the difference of total sales between increased and the current price is £10,800.

On the production cost budget will be shown the calculations on calculating the total amount of money needed for labour, raw materials, subcontract cost and the variable overheads.

PRODUCTION COST BUDGET				
EACH UNIT	Hours	Cost	Total	
Labour	40	£ 7.00	£ 280.00	
Raw materials			£ 120.00	
Sub Contract			£ 50.00	
Variable Overheads			£ 50.00	
Unit total			£ 500.00	
		Sales volume at current price	Sales volume at increased price	
Month	Unit	£	Unit	£
January	90	£ 45,000.00	80	£ 40,000.00
February	110	£ 55,000.00	90	£ 45,000.00
March	120	£ 60,000.00	100	£ 50,000.00
April	120	£ 60,000.00	100	£ 50,000.00
May	100	£ 50,000.00	80	£ 40,000.00
June	100	£ 50,000.00	80	£ 40,000.00
July	90	£ 45,000.00	90	£ 45,000.00
August	80	£ 40,000.00	80	£ 40,000.00
September	90	£ 45,000.00	90	£ 45,000.00
October	120	£ 60,000.00	120	£ 60,000.00
November	150	£ 75,000.00	150	£ 75,000.00
December	130	£ 65,000.00	130	£ 65,000.00
Total	1300	£ 650,000.00	1190	£ 595,000.00

Based on the units given above we found out the sales volume at the current and higher price. The production budget shows that that the cost to make the units is higher for the units at the current price than the increased price.

Below I am going to show the Cash Flow Forecast at the current price, which will be followed by the Cash Flow Forecast at the increased price.

The Cash Flow Forecast shows at the current price shows that the closing balance at the end of the year is £50,000 but the Cash Flow Forecast at the higher price shows a closing balance of £75,800

CASHFLOW FORECAST	AT THE CURRENT PRICE												
	NAME:												
PERIOD:													
RECEIPTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
	£	£	£	£	£	£	£	£	£	£	£	£	£
Cash from debtors/ sales	108000	132000	144000	144000	120000	120000	108000	96000	108000	144000	180000	156000	1560000
TOTAL RECEIPTS	108000	132000	144000	144000	120000	120000	108000	96000	108000	144000	180000	156000	1560000
PAYMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Production	45000	55000	60000	60000	50000	50000	45000	40000	45000	60000	75000	65000	650000
Sales and Marketing	16666	16666	16666	16666	16666	16666	16666	16666	16666	16666	16666	16674	200000
Rates	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	60000
Finance	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	90000
Office payroll	18337	18333	18333	18333	18333	18333	18333	18333	18333	18333	18333	18333	220000
General office overheads	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	90000
Office equipment	10000	0	0	0	0	0	0	0	0	0	0	0	10000
Contingency fund	7500			7500			7500			7500			30000
Factory overheads	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	180000
TOTAL PAYMENTS	132503	124999	129999	137499	119999	119999	122499	109999	114999	137499	144999	135007	1530000
NET CASHFLOW	-24503	7001	14001	6501	1	1	-14499	-13999	-6999	6501	35001	20993	30000
OPENING BALANCE	20000	-4503	2498	16499	23000	23001	23002	8503	-5496	-12495	-5994	29007	20000
CLOSING BALANCE	-4503	2498	16499	23000	23001	23002	8503	-5496	-12495	-5994	29007	50000	50000

	CASH FLOW FORECAST AT HIGHER PRICE												
NAME:													
PERIOD:													
RECEIPTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
	£	£	£	£	£	£	£	£	£	£	£	£	£
Cash from debtors/ sales	105600	118800	132000	132000	105600	105600	118800	105600	118800	158400	198000	171600	1570800
TOTAL RECEIPTS	105600	118800	132000	132000	105600	105600	118800	105600	118800	158400	198000	171600	1570800
PAYMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Production	40000	45000	50000	50000	40000	40000	45000	40000	45000	60000	75000	65000	595000
Sales and Marketing	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	240000
Rates	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	60000
Finance	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	90000
Office payroll	18337	18333	18333	18333	18333	18333	18333	18333	18333	18333	18333	18333	220000
General office overheads	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500	90000
Office equipment	10000												10000
Contingency fund	7500			7500			7500			7500			30000
Factory overheads	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	180000
TOTAL PAYMENTS	130837	118333	123333	130833	113333	113333	125833	113333	118333	140833	148333	138333	1515000
NET CASHFLOW	-25237	467	8667	1167	-7733	-7733	-7033	-7733	467	17567	49667	33267	55800
OPENING BALANCE	20000	-5237	-4770	3897	5064	-2669	-10402	-17435	-25168	-24701	-7134	42533	20000
CLOSING BALANCE	-5237	-4770	3897	5064	-2669	-10402	-17435	-25168	-24701	-7134	42533	75800	75800

MONTHLY SALES BUDGET

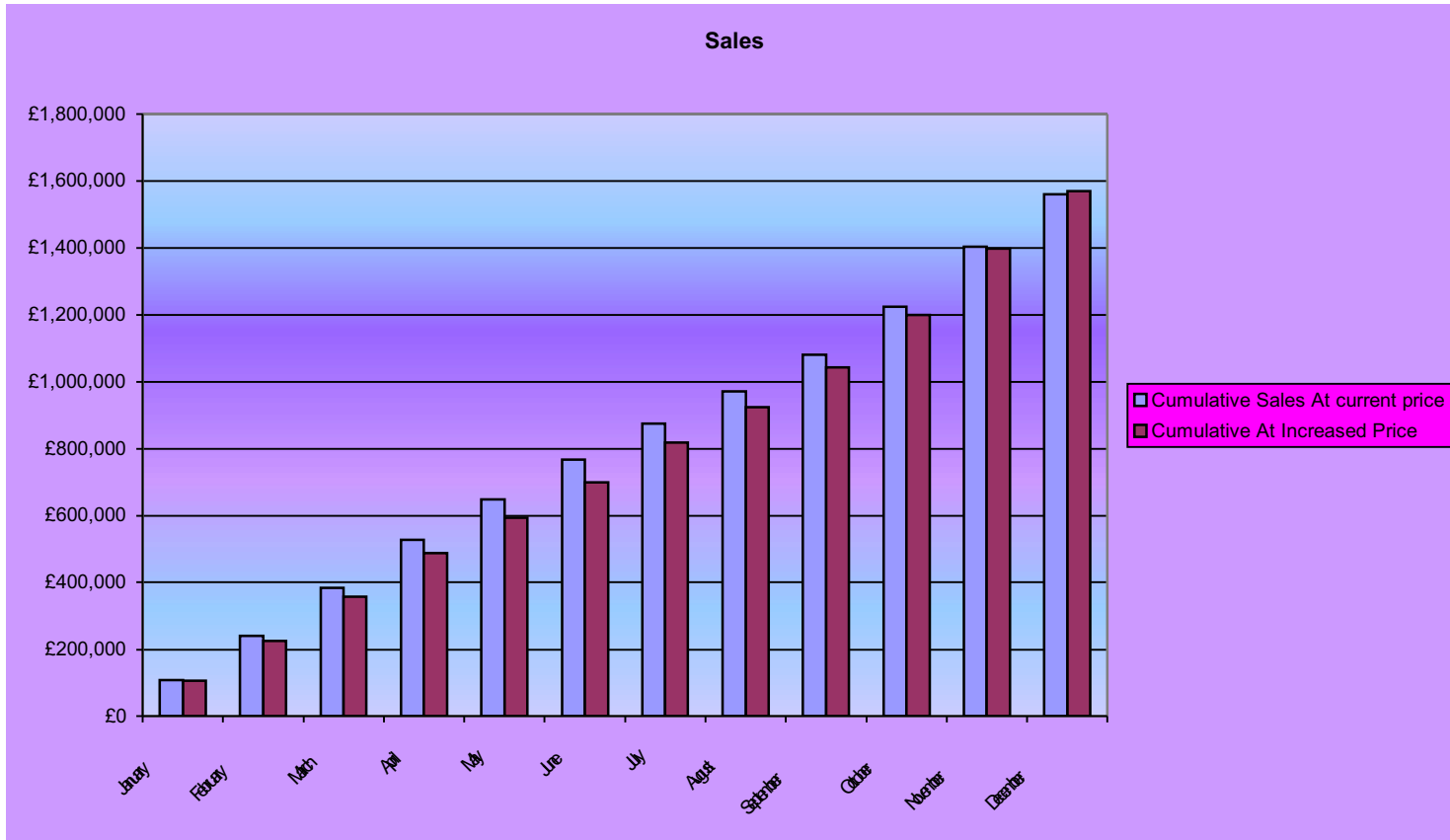
Current Price	£1,200	Increased Price	£1,320
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Cumulative Sales **Cumulative sales**

Month	Unit	£	Unit	£
January	90	£108,000	80	£105,600
February	110	£132,000	90	£118,800
March	120	£144,000	100	£132,000
April	120	£144,000	100	£132,000
May	100	£120,000	80	£105,600
June	100	£120,000	80	£105,600
July	90	£108,000	90	£118,800
August	80	£96,000	80	£105,600
September	90	£108,000	90	£118,800
October	120	£144,000	120	£158,400
November	150	£180,000	150	£198,000
December	130	£156,000	130	£171,600
Total	1300	£1,560,000	1190	£1,570,800

Current Price	Increased Price
£108,000	£105,600
£240,000	£224,400
£384,000	£356,400
£528,000	£488,400
£648,000	£594,000
£768,000	£699,600
£876,000	£818,400
£972,000	£924,000
£1,080,000	£1,042,800
£1,224,000	£1,201,200
£1,404,000	£1,399,200
£1,560,000	£1,570,800
£9,792,000	£9,424,800

The table above shows the monthly sales budgets at the current and higher price. It also shows the cumulative sales at current and higher price on which the graph below is based.



The graph shows that until November sales were better at the current price and on December the sales were better at the increased price.

The Master budget that will be on the following page will the net profit for both increased and current price.

	Current Price	Higher Price	Actual Price
Sales	1560000	1570800	1704000
Production Cost	650000	595000	729000
Gross Profit	910000	975800	975000
Less Expenses			
Factory overheads	180000	180000	174000
Business Rates	60000	60000	55000
Sales And Marketing	200000	240000	220000
Finance Cost	90000	90000	80000
Staff Payrole	220000	220000	205000
General Overheads	90000	90000	105000
Contingency Fund	30000	30000	10000
Total Expenses	870000	910000	849000
Net Profit	40000	65800	126000

The Master budget shows the net profit for the year 2003 at current, higher and actual price.

Conclusion (Budgetary control)

After working out the budgets above we have come to the following conclusion:

- The monthly sales budget on the page twelve shows that at the first six months sales at the current price were bringing more money to the company than sales at the higher price.
- The second six-month of the year the sales at the current price were making more money for the company. At the end of the trading year the sales at the higher price managed to make £10,800 more than the sales at the current price.
- The production cost budget the total number of items produced within the year at current and higher price and the costs to make them
- For the current price the company had to produce 1,300 units in a year and for the sales at the higher price the company had to produce 1,190 units in a year which means that more money were spend to produce the products for sale at the current price.
- The Cash Flow forecast at the current price shows that the total amount of money flowing in to the account is £1560000. The total inflow for the Cash

Flow forecast at the higher price is £1570800. This means that there is more money coming from the sales at the higher price.

- The total payment for the cash flow forecast at the current is £1530000, but at the higher price the total payment is £1515000. Which still means that there that the cash flow at the current price has more money flowing out of the account than the cash flow at the higher price.
- The cash flow forecast shows the net cash flow at the higher price to be £25800 higher than the cash flow at the current price.
- The closing balance at the end of the year at the current price is £50000, but the closing balance at the higher price is £75800. This shows that at the end of the year the closing balance is higher at the higher price than at the current price.
- The master budget shows that the gross profit at the current price is £910000, at the higher price is £975800 and at the actual price is £97500. This shows that at the higher price the gross profit is higher than the other too prices.
- The net profit show that the actual price is going to bring more profit to the company, the current price is going to give less profit to the company than the higher price.

Recommendation (Budgetary control)

According to the above conclusions the best thing Oakdene Engineering can do is go ahead with the higher price as that is going to bring to the company more money than the current price.

Some of the things that prove it are:

- The first six months are not going to have more sales as would be with the current price.
- The last six months of the year, sales at the higher price are going to bring more money to the company than the sales at current price.
- The cost to produce units at the higher price is lower than the cost of the current price.

But the problem is would people want to buy the products of the same quality as before for more money?

The company has to set out questionnaires to find it out.

4.1 Budgetary control part B

Introduction (Budgetary control part B)

On the second part of the budgetary control I am going to compare and discuss the differences of the master budget shown on the first part of the budgetary control with the actual information of the cash flow forecast at the actual price.

Method (Budgetary control part B)

To make this task easier to understand I am going to use:

- Master budget at actual price
- Cash flow forecast at actual price
- Sales budget at actual price

Findings (Budgetary control part B)

Master budget

	Current Price	Higher Price	Actual Price
Sales	1560000	1570800	1704000
Production Cost	650000	595000	729000
Gross Profit	910000	975800	975000
Less Expenses			
Factory overheads	180000	180000	174000
Business Rates	60000	60000	55000
Sales And Marketing	200000	240000	220000
Finance Cost	90000	90000	80000
Staff Payroll	220000	220000	205000
General Overheads	90000	90000	105000
Contingency Fund	30000	30000	10000
Total Expenses	870000	910000	849000
Net Profit	40000	65800	126000

MONTHLY SALES BUDGET

		Current price	£1,200	Increased price	£1,320	Actual price	£1,262
Month	Unit	£	Unit	£	Units	£	
January	90	£108,000	80	£105,600	100	£126,200	
February	110	£132,000	90	£118,800	110	£138,820	
March	120	£144,000	100	£132,000	120	£151,440	
April	120	£144,000	100	£132,000	120	£151,440	
May	100	£120,000	80	£105,600	100	£126,200	
June	100	£120,000	80	£105,600	100	£126,200	
July	90	£108,000	90	£118,800	90	£113,580	
August	80	£96,000	80	£105,600	90	£113,580	
September	90	£108,000	90	£118,800	100	£126,200	
October	120	£144,000	120	£158,400	110	£138,820	
November	150	£180,000	150	£198,000	160	£201,920	
December	130	£156,000	130	£171,600	150	£189,300	
Total	1300	£1,560,000	1190	£1,570,800	1350	£1,703,700	

Merita Myrtollari

Cash Flow Forecast At Actual Price													
NAME:													
PERIOD:													
RECEIPTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
	£	£	£	£	£	£	£	£	£	£	£	£	£
Cash from debtors/ sales	105600	118800	132000	132000	105600	105600	118800	105600	118800	158400	198000	171600	1570800
TOTAL RECEIPTS	105600	118800	132000	132000	105600	105600	118800	105600	118800	158400	198000	171600	1570800
PAYMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Production	60750	60750	60750	60750	60750	60750	60750	60750	60750	60750	60750	60750	729000
Sales and Marketing	18334	18334	18334	18334	18333	18333	18333	18333	18333	18333	18333	18333	220000
Rates	4584	4584	4584	4584	4583	4583	4583	4583	4583	4583	4583	4583	55000
Finance	6667	6667	6667	6667	6667	6667	6667	6667	6666	6666	6666	6666	80000
Office payroll	17084	17084	17084	17084	17083	17083	17083	17083	17083	17083	17083	17083	205000
General office overheads	8750	8750	8750	8750	8750	8750	8750	8750	8750	8750	8750	8750	105000
Contingency fund	2500			2500			2500			2500			10000
Factory overheads	14500	14500	14500	14500	14500	14500	14500	14500	14500	14500	14500	14500	174000
TOTAL PAYMENTS	133169	130669	130669	133169	130666	130666	133166	130666	130665	133165	130665	130665	1578000
NET CASHFLOW	-27569	-11869	1331	-1169	-25066	-25066	-14366	-25066	-11865	25235	67335	40935	-7200
OPENIBG BALANCE	20000	-7569	-19438	-18107	-19276	-44342	-69408	-83774	-108840	-120705	-95470	-28135	20000
CLOSING BALANCE	-7569	-19438	-18107	-19276	-44342	-69408	-83774	-108840	-120705	-95470	-28135	12800	12800

Conclusion (Budgetary control part B)

Now I conclude that more products are sold at the higher price than at the current price.

Based on the conclusion given on the first part and after comparing the figures on the master budget, which includes the data at the current price, higher, and actual price, I can tell that the increased higher price will give the company more profit than the current price.

The actual price on the master budget shows the higher net profit coming in to the company, which might give the company more ideas and choices to make the decision.

Recommendation (Budgetary control part B)

Before making the decision the company has to find out the following things:

Has the business any competitors? If yes how many?

Will the product be needed at that time of the year?

When increasing the selling price will it have any bad affect on your organisation, if yes what?

If the company has more than three competitors in the UK then they have to be careful as its competitors can pot the business down as once you put the prices up they put their prices down which will affect you sales.

If the above questions are positive for the company I finally can recommend Oakdene Engineering to go with the actual price, which means they can keep their products at the current price for the first six months of the year and for the rest of the year to use the increased price.

5. Standard costing and variance analysis

Introduction (Standard costing and variance analysis)

At Oakdene engineering is produced a house hold product with the following standard costs for one product:

Direct materials – three kilos at £1.25 per kilo

Direct labour - three hours at £5.10 per hour

The company produces 50,000 units a month.

As an accounting assistant I was asked to compare the actual with the standard cost. There are three managers, the purchasing, personnel and the production managers have different ideas and all of them think that they are going to be successful.

Method (Standard costing and variance analysis)

To sort this problem the following accounting techniques will be used:

- The report technique
- Tables
- Calculations
- Formulae's

Findings (Standard costing and variance analysis)

As shown at the introduction the standard costs for one unit are:

Direct materials – three kilos at £1.25 per kilo
 Direct labour - three hours at £5.10 per hour

The standard budget for the company is to produce 50,000 units in one month.

Materials

The cost of the materials needed for 50,000 units is:

Three kilos x 50,000 units = 150,000 kilos x £1.25 = **£187,500** per 50,000 units

Labour

The cost of labour for the 50,000 units is going to be:

Three hours x 50,000 units = 150,000 hours x £5.10 = **£765,000** per 50,000 units

The total standard budget is £187,500 + £765,000 = **£952,500 per 50,000 units**

In June 2000 the actual results were:

Direct materials - 158,000 kilos costing £189,600
 Direct labour - 156,000 hours costing £819,000
 Which is a total of the actual budget of **£1008,600**

£189,600 / 158,000 kilos = £1.20 per unit = to 0.05p favourable
£819,000 / 156,000 hours = £5.25 per hour = to 0.15p adverse

When taking away the actual total of June £1008,600 from the standard budget that is £952,500 will give us a variance adverse of £56,100

Materials	Price	Actual usage x difference I price 158,000kg x 0.05 = 7,900 favourable
	Usage	Standard price x difference in usage £1.25 x 8000kg = 10,000 adverse
Labour	Rate	Actual hours x the difference in rate 156,000 hours x 0.15p = 23,400 adverse
	Efficiency	Standard rate x difference in efficiency

		£5.10	x 6,000 hours = 30,600 adverse
--	--	-------	---------------------------------------

From the table above the adverse amount will be added together and will be taken away from the favourable amount.

$7,900 - 10,000 - 23,400 - 30,600 = £56,100$ adverse variances.

Critical evaluation

It is very difficult to find out why Oakdene engineering ltd is come down to £56,100 adverse in the variances.

Some of the reasons that might have caused the adverse are:

1. Supervision of staff – staff might not have been supervised and they have wasted time by taking longer breaks or arriving late or living early.
2. Machine breakdown – there might be machines that do not work and that will need time to repair which will waste time and money.

There are a lot of ways to find out why this happened but we have to take in to consideration that it will take time to find out the information we need.

It might help if we interview all the managers so we will be able to carry out an investigation.

The data and information we find out from the investigation has to be gathered together which it will take time.

We have to measure of how long it takes to produce one unit.

Conclusion (Standard costing and variance analysis)

To conclude, I am going to state what we found out from the information given to as.

We found out that in June 2000 the prices changed, the things that changed are:

- The price for the materials was 0.05p favourable
- The pay for hour to make the product was 0.15p adverse.

By using a table we calculated and showed the figures of Price 7900 favourable, Usage 10000 adverse, Rate 23400 adverse and Efficiency 30600 adverse.

After adding the figures together we found out that Oakdene Engineering has to improve or change the ways of doing thing as they ended up on have £56100 adverse variances.

Recommendation (Standard costing and variance analysis)

Merita Myrtollari

I recommend Oakdene Engineering to look through the reasons that have caused the adverse variances. Separate them into two groups, which are:

Beyond the management control	Within management control
<ol style="list-style-type: none">1. Price going up2. Staff illness3. Power cut4. Fire5. Flood etc.	<ol style="list-style-type: none">1. Staff absence2. Supervision3. Machine maintenance4. Price search5. Staff motivation6. Management7. Poor materials and wastage

If the cause of the adverse is anything under within the management control column then they should take it under consideration and improve things.

The things that they might improve are:

- Make sure that the staff absences are for a good reason.
- Staff must be supervised at all the times.
- The machines should be used correctly and staff must take good care of them such as clean them every time they finish work.
- The management must make more afford to find cheaper prices.
- The staff must be motivated to make them enjoy work by giving them benefits or pay rise.
- Before buying the materials a specialist must test them to make sure that the material is worth the money.
- When ordering materials Oakdene must make sure that they order only enough material needed for the work and they should take care of it and not waste material.

6. Overhead Absorption & Job Costing

Introduction (Overhead Absorption & Job Costing)

On this part of my investigation I am going to show how to put different overheads on to the different job centres with the Oakdene Engineering and I am going to produce a job costing sheet.

Method of investigation (Overhead Absorption & Job Costing)

The methods that will be used on this task are:

- Table
- Calculation
- Cost sheet

Findings (Overhead Absorption & Job Costing)

The way to get the overhead into cost unit is:

Direct variable cost add overhead portion and add the profit.

Apportionment and expenses to cost centres

Overheads	Method	Assembly	Painting	Packing
Rent & rates £72,100	Floor area	£30,900	£15,450	£25,750
Foreman's salaries £26,750	Number of employees	£15,047	£6,688	£5,016
Depreciation machinery £108,800	Machine value	£54,400	£32,640	£21,760
Insurance of machinery £7,500	Machine value	£3,750	£2,250	£1,500
Total overheads		£104,097	£57,028	£54,025

Thinking that it is not fair to separate the overhead e.g. foreman salaries based on the number of the employees as the department with more employees does not need to spend a lot of time to do the work because there are too many people working.

The overhead absorption rate of each department based on the direct labour hours are:

Painting

37 hours x 48 Weeks x 8 members of staff = 14208 £57028 / 14208 = **£ 4.01**

Packing

37 hours x 48 weeks x 6 members of staff = 10656 £54025 / 10656 = **£ 5.07**

Assembly

37 hours x 48 weeks x 18 members of staff = 31968 £104097 / 31968 = **£ 3.25**

The problem that might come from this calculation is that not all the hours might be used from staff the reasons are:

- Staff might be ill
- Maternity leave
- Paternity leave
- Staff not supervised (waste of time)
- Staff might sign in on behalf of each other etc.

Activity C

On the activity C, I am going to show the job-costing sheet.

<i>Direct cost</i>		<i>Quotation</i>
Labour:		
Assembly		£2500
Painting		£2200
Packing		£4800
Total		£9500
Materials:		
Assembly		£100
Painting		£400
Packing		£500
Total		£1000
Absorption:		
Assembly	1000 x 3.26	£3260
Painting	900 x 3.26	£2934
Packing	960 x 3.26	£3129.60
Total		£9323.60
Admin 20% of the all totals above	19823.60 x 20%	£3964.72
Profit mark up 25%	19823.60 x 25%	£4955.90
Price		£28744.22

Conclusion (Overhead Absorption & Job Costing)

After doing all the calculations and other requirements, I have reached the following conclusion:

The total overheads for assembly are £ 104,097, for the painting department are £57,028 and for the packing department the total overheads are £54,025.

The overhead absorption based on labour hours for each department is:

Assembly	£3.25
Painting	£4.01

Packing	£5.07
---------	-------

On the job costing the overall price is £28744.22

APPENDIX 1

Break-even

What is break-even analysis?

Break-even is a management accounting technique, which depend on the nature and the behaviour of the costs.

The break-even point is the point at which the business makes neither profit nor loss (the point at which all the costs are covered).

The break-even can be worked out by using:

- Graph
- Table
- Calculation

The break-even can help a business to make a decision on whether to make a move and expand the business or not. The breakeven calculations help the business to find out approximately how much profit or loss is going to make.

What is behaviour of the costs?

Costs can be classified into:

- Fixed costs (indirect costs) e.g. rent, rates, heating, advertising, salaries, telephone.
- Variable costs (direct costs) e.g. materials of the product and the labour.

What are the fixed costs?

The fixed costs are the costs that the business has to pay even if it doesn't sell any products. The example is shown above. Fixed cost do not remain fixed at all levels of the production e.g. if decided to increase the number of the production then the fixed cost has to go up as well.

What are the variable costs?

The variable costs are the costs that you pay depending on the number of the products the business makes. If the number of the products increases then the variable costs increase.

What are advantages of the breakeven?

The advantage of breakeven is:

- It will give you a rough idea of how much money you need and how much you are going to make.
-

What are the disadvantages of the breakeven?

The disadvantages of breakeven is:

- Breakeven calculations are not accurate. You might not sell everything that you are aiming for.

Breakeven is used to give businesses an idea if they are going to be on loss or profit.

Appendix 2

Marginal Costing

What is marginal costing?

Marginal costing is the cost of the extra units produced with in the production line. The technique of marginal costing recognises that fixed cost do vary with time rather than activity e.g. even if the number of units produced will increase or decrease the amount of money paid for the rent will remain the same.

Management accounting technique help in decision making on:

- ✓ Contribution to sales ration, rather than profit margin.
- ✓ Use of spare capacity for special orders.
- ✓ Make or buy decision
- ✓ Allocation of scarce resources.

The disadvantages of using the marginal costing is:

- ✗ If we reduce prices that will only cover the costs of the business to attract new customers it will be difficult to persuade customers to pay more later on.
- ✗ People might not want to buy the product at reduced price as they might think that it is something wrong with it e.g. the quality, not long lasting life etc.
- ✗ Other companies might take advantages and sell the same product for less when you decide to go back to the original selling price.

What is a make or buy decision?

The make or buy decision is a management decision on whether they should manufacture a particular product or buy it from another supplier. The reasons that managers want to buy a product instead of making it might be because:

- ✓ It might be cheaper to buy

✓ Other suppliers might supply better products than the company can make
Make or buy decision can affect the structure of the business and the fixed and variable costs.

When making the products the fixed cost is high and when buying it makes a very little difference to them.

Before making the decision the company has to compare the marginal cost of producing the product with the price quoted by the supplier.

Opportunity cost is a benefit used when a particular course of action is taken.

The things that the accountant has to keep in mind while using the marginal costing technique are:

- Fixed costs must be covered
- Effect on customers
- Special edition products
- Problems of product launched on marginal cost basis

Appendix 3

Investment Appraisal

What is the payback?

The pay back is an accounting technique, which is used to see how long it takes to pay back its original value. The faster the pay back more profit for the company. This does help manager to make decision on whether or not to go ahead with the project.

What are the advantages of the payback?

The advantages of the payback technique are:

- It is easy to calculate and understand
- It has an affect on the early cash flows, which are more accurate than the later ones.
- It will help managers to find out how much capital they need to invest

What are the disadvantages of the payback?

The disadvantages of payback technique are:

- The cash flows are ignored after the payback period

What is the accounting rate return?

This method is an accounting technique used to calculate a percentage accounting rate of return on the initial cost of the project.

The formulae for this method is:

Merita Myrtollari

(Total estimated cash flow divided by estimated life of the project) over the initial cost times 100 over 1.

What are the advantages of the accounting rate return?

The advantages of the accounting rate return are:

- It is easy to calculate
- All cash flows are used
- It is easy to understand the results

What are the disadvantages of using accounting rate return?

The disadvantage of using the accounting rate return is:

- The timing of the cash flow is ignored.

What is the net present value?

The net present value is an accounting technique used to show that money has time value. This means that money does lose value if it is not invested. The longer you live your money sitting in the bank with out putting it on a saving account more its value is going to fall.

Appendix 4

Budgetary Control

What does the term budget mean?

Budgets are plans prepared in advance for an operating time of a business. This will give the business an idea of how much profit they are going to make but we must understand that these plans are made before the beginning of the trading year which mean that plans might not go as they are planed.

The advantages of using the budgets are:

Motivation e.g. the head of financial departments knows what is expected of them so they work towards that objective.

Responsibility e.g. managers are given more responsibilities as they work through budgets themselves.

Control e.g. if the budgets show that plans are not going to end successfully then managers can take action before the trading year begins.

Decision making e.g. it will be easier for the business to make decisions as they have forecasts of what they are going to achieve from the business.

Planning e.g. by using budgets managers will be able to plan easily forward and they can find out if sales will cover their overheads.

How to prepare a budget

Budgets are prepared before the trading period starts.

The budgets must have the following criteria:

- The budgets must conform company policies and objectives
- The individual budgets must be responsible and achievable
- All budgets that will make the master budget must be similar
- When setting a budget, things that are expected during the trading year must be taken in to consideration.

The final master budget is taken to the chief executive.

There are different cash flows that might be used for a business, they are the sales budget, the production budget etc.

The problems of using the budgets are:

- Budgetary slack
- Incremental budgeting
- Lack of involvement and motivation
- Spending the total allowance budget
- Assigning variances to managers
- Fixed budget

Appendix 5

Standard Costing

What is a standard cost?

A standard cost is a pre- determined cost based on the future, materials, labour and overhead costs and working condition.

What are the standard costs set for?

Standard costs are set for: materials, labour and overheads.

- The standard material cost is the expected quantity multiplied by the material price.
- The standard labour cost is the expected labour hours multiplied by the wage rate.
- The standard overhead costs is the expected quantity of goods produced divided by the overheads.

People within a business that can give information to set the standards are:

- Buyer
- Personnel
- Management service
- Production

Standard costs enable budgets to be produced for costing individual costs or production runs.

After the production has been completed, then the actual figures are produced to compared with budgets.

Differences are identified and if things are going wrong the managers will take action. Reports are issued only if there are problems.

Adverse variances can be caused by a number of issues. These issues are divided in to different categories. The categories are:

Beyond the management control

Prices going up
Staff illness
Power cuts
Fire
Flood

Within the management control

Staff absences
Supervision
Machine maintenance
Staff motivation
Materials
Wastage

Appendix 6

Overhead Absorption And Job Costing

Fixed costs need to be spread in to the cost centres.

Allocation is when it is possible to say how much has been used by each department. The way to do that is by using meters or swipe cards.

Apportionment is when a method is used and agreed by all managers.

Overhead absorption – after the overheads are in to the cost centres, they must be absorbed into the cost unit price. There are three possible methods that can be used:

1. Labour hours
2. Units of production
3. Machine hours

Once the a price has been set to cover variable costs, fixed costs and profit, then estimates can easily be prepared for jobs.

Job costing is used where:

- Each job can be identified separately from other jobs
- Costs are charged separately for each job

The main steps involved in job costing are:

- A separate job cost sheet has to be issued for all jobs within an organisation.
- If things are not looking well for a particular job the managers then will take it into consideration.

Cost units are the units of production to which costs can be charged.

Cost centres are sections of a business to which costs can be charged.

The problems that might arise from overhead apportionment and absorption costing are:

- Managers might not agree with the decision taken
- The way that they decide to separate the overheads might not be fair on all departments within the company.
- It might bring conflicts between managers and then there will be a communication breakdown within the business, which will affect the success of the company.