# Production Budgets 

Roche LTD

## 2008

## Step By Step <br> Approach

## PART A

Part $A$ is asking you to calculate a production budget in units. This is how many units need to be made for each product. The layout will be the following

| A. Sales in units | These figures are usually taken from the question - sales are expected to be. |
| :---: | :---: |
| B. Add Closing stock | 1. There will be a certain percentage of stock to be increased/decreased. This will usually be given at the start of the question <br> 2. It will be calculated by using stock of finished goods on the 01.01 and increasing/reducing it by the percentage given at the start of the question |
| C. | Add the figure for $A$ and $B$ together |
| D. Less Opening Stock | 1. This figure will be given in the question <br> 2. It can be identified by the sentence - 'Stock of finished goods on the 01/01/ xx are expected to be |
| E. Required for Production | 1. Take the figure for $D$ away from the figure calculate for $C$ <br> 2. This figure will be used later on in the questions |

## Sales

Take these figures from the question

1. These figures are taken straight from the question

|  | Super | Supreme |
| :--- | :--- | :--- |
| Sales are expected to be | 10,000 | 4,200 |

Taken from the question

Tip - Make sure to use the finished goods figures

## Closing Stock

## An adjustment is needed here

1. It the question is says the following about closing stock
'all stock are to be reduced by $20 \%$ from their opening levels by the end of 2009 and are valued using FIFO method.'
'Stock of finished goods on 01/01/2009 are expected to be'

| Super | 600 units @ $€ 120$ each |
| :--- | :--- |
| Supreme | 450 units @ $€ 140$ each |

Taken form the question
2. This means that at the end of the year the closing stock figure for each product will have decreased by 20\%.
3. The following workings show you how to calculate the closing stock figure for each product

## Workings

Exam Tip - Exam Tip -
Make sure to look out for if the closing stock will increase or decrease

## Super

| as per question | Opening Stock | 600 |
| :--- | :--- | :--- |
| as per question | decreased | $\underline{120}$ |
|  | Cl. Stock | 480 |

## Supreme

| Opening Stock | 450 | as per question | Opening Stock | 450 |
| :--- | :--- | :--- | :--- | :--- |
| Rate of Increase | $10 \%$ | as per question | Reduction | $\underline{90}$ |
| $450 * 10 \%$ | $=90$ |  | Cl. Stock | 360 |


|  | Super | Supreme |
| :--- | :--- | :--- |
| Sales are expected to be | 10,000 | 4,200 |
| Add Closing Stock | 480 | 360 |
|  | 10,480 | 4,560 |

NOTE - Remember to add these two figures together to get the total $(10,000+480=10,480$ and $4,200+360=4,560)$

## Opening Stock

Take these figures from the question

1. The question says the following about the opening stock figures for finished goods
'Stock of finished goods on 01/01/2009 are expected to be'

| Super | 600 units @ $€ 120$ each |
| :--- | :--- |
| Supreme | 450 units @ $€ 140$ each |

Taken form the question
This means that the opening stock figure for Super is 600 units and for Supreme it is 450 units

|  | Super | Supreme |
| :--- | :--- | :--- |
| Sales are expected to be | 10,000 | 4,200 |
| Add Closing Stock | 480 | 360 |
|  | 10,480 | 4,560 |
| Less Opening Stock | 600 | 450 |

Take these figures from previous figures (workings)

1. The formula to calculate the units needed for production is

Sales + Closing stock - Opening Stock = Required for production
2. These figures will be used for Part B - Prepare a raw materials purchases budget (in units and $€$ )

| Production budget for Crowley Ltd in units |  |  |
| :--- | :--- | :--- |
|  | Super | Supreme |
| Sales are expected to be | 10,000 | 4,200 |
| Add Closing Stock | 480 | 360 |
|  | 10,480 | 4,560 |
| Less Opening Stock | 600 | 450 |
| Budget Production in Units | 9,880 | 4,110 |

NOTE - Remember to take these two figures away from each other to get the total (10,480$600=9,880$ and $4,560-450=4,110$ )

NOTE - Remember to include the heading - Production budget for Crowley Ltd

Exam Tip - You can do the workings on the statement or on a calculator - there is no need for the workings

Exam Tip - Make sure to use the figures for finished goods and not raw materials

## PART B

Part $B$ is asking you to calculate the raw materials purchases budget. This is how much of a certain material is needed each to produce the two products. The units from part $A$ will be used as part of working. The layout is similar to Part A and look like this

| A. Required for Production | 1. A working will be needed to find out what the total figure is required $o$ the material for each product |
| :---: | :---: |
| B. Add Closing stock | 1. There will be a certain percentage of opening stock that will need to be decreased to get the closing stock figure. This will usually be given at the start of the question. <br> 2. Make sure to use the stock of raw materials figure that is given in the question. <br> 3. This stock of raw material figure will be reduce by the percentage to decrease closing stock by. |
| C. Less Opening Stock | 1. This figure will be given in the question <br> 2. Make sure to use the stock of raw materials figure that is given in the question. <br> Tip - This is the same figure that you used in $b$ above to calculate the closing stock figure |
| D. Forecasted <br> Purchases of <br> Raw Material in <br> Kgs | 1. This figure is usually calculate by using the opening stock figure and taking it away from the figure above it |
| E. Purchase price | 1. This figure will usually be given in the question <br> 2. Make sure to use the figure that say the expected prices for raw materials during the year are |
| F. Forecasted Purchases of Raw Material in € | 1. This figure is got by multiplying D by E |

## Required for production

## An adjustment is needed here

1. The figures for the budget production in units for both products are taken form part $A$

| Production budget for Roche Ltd in units |  |  |
| :--- | :--- | :--- |
|  | Super | Supreme |
| Budget Production in Units | 9,880 | 4,110 |

Taken from part $A$
2. In the question it says the following about raw materials
'Both products use the same raw materials and skilled labour but in different quantities per unit as follows'

|  | Super | Supreme |
| :--- | :--- | :--- |
| Material X | 7 kgs | 5 kgs |
| Material Y | 6 kgs | 8 kgs |
| Skilled Labour | 7 Hours | 8 Hours |

Taken from the question
3. Use the following information to complete the working (We are interested in the material figure)
4. The working to calculate these figures will look something like this

## Workings

## Super

## Material X

| Production Units | 9,880 | as per Part A |
| :--- | :--- | :--- |
| Required in kgs | $\underline{{ }^{*} 7}$ | as per question |

Material Y

| Production Units | 9,880 | as per Part A |
| :--- | :--- | :--- |
| Required in kgs | $\frac{\star 6}{54,280}$ | as per question |

## Supreme

## Material X

| Production Units | 4,110 | as per Part A |
| :--- | :--- | :--- |
| Required in kgs | $\underline{\text { * } 5}$ | as per question |

## Material Y

| Production Units | 4,110 | as per Part A |
| :--- | :--- | :--- |
| Required in kgs | $\underline{\text { * } 8}$ | as per question |


|  | Material X | Material Y |
| :--- | :--- | :--- |
| A. Required for Production |  |  |
| Super | 69,160 | 20,550 |
| Supreme | 59,280 | 32,880 |
|  | 89,710 | 92,160 |

NOTE - Remember to add these two figures together to get the total (69,160 + 59,280 = 89,710 and $20,550+32,880=92,160$ )

## Closing Stock

## An adjustment is needed here

1. In the question it says
'all stock are to be decreased by 20\% from their opening levels by the end of 2015'
2. Make sure to use the opening stock figure for raw materials that are given in the question.
'Stock of raw material on 01/01/2009 are expected to be'

| Material X | $5,000 \mathrm{Kgs} @ € 2.50$ per Kg |
| :--- | :--- |
| Material Y | $3,000 \mathrm{Kgs} @ € 4.50$ per Kg |

Taken from the question
3. The working to calculate these figures will look something like this

Exam Tip - Make sure to use the figures for raw materials and not finished goods

## Working

Material X

| Opening Stock | 5,000 | as per question | Opening Stock | 5,000 |
| :--- | :--- | :--- | :--- | :--- |
| Rate of decrease | $\underline{\underline{20 \%}}$ | as per question | decrease | $\underline{1,000}$ |
|  | 1,000 |  |  | 4,000 |

Material Y

| Opening Stock | 3,000 | as per question | Opening Stock | 3,000 |
| :--- | :--- | :--- | :--- | :--- |
| Rate of decrease | $\underline{20 \%}$ | as per question | decrease | $\underline{600}$ |
|  | 600 |  |  | 2,400 |


|  | Material X | Material $\mathbf{Y}$ |
| :--- | :--- | :--- |
| A. Required for Production |  |  |
| Super | 69,160 | 20,550 |
| Supreme | 59,280 | 32,880 |
|  | 89,710 | 92,160 |
| B. Add closing stock | 4,000 | 2,400 |
|  | 93,710 | 94,560 |

NOTE - Remember to add these two figures together to get the total $(89,710+4,000=93,710$ and $92,160+2,400=94,560$ )

## Opening stock

Take these figures from the question

1. The question says the following about the opening stock figures for raw materials
'Stock of raw material on 01/01/2009 are expected to be'

| Material X | $5,000 \mathrm{Kgs} @ € 2.50$ per Kg |
| :--- | :--- |
| Material Y | $3,000 \mathrm{Kgs} @ € 4.50$ per Kg |

Taken from the question
2. This means that the opening stock figure for raw material for material $X$ is $5,000 \mathrm{kgs}$ and for material Y it is $3,000 \mathrm{kgs}$

|  | Material X | Material Y |
| :--- | :--- | :--- |
| A. Required for Production |  |  |
| Super | 69,160 | 20,550 |
| Supreme | 59,280 | 32,880 |
|  | 89,710 | 92,160 |
| B. Add closing stock | 4,000 | 2,400 |
|  | 93,710 | 94,560 |
| C. Less Opening Stock | $(5,000)$ | $(3,000)$ |

## Forecasted purchases of raw material in Kgs

## Use the figures in your answer

1. To calculate the forecasted purchase of raw material in kgs figure you add the opening stock figure and the previous figure together

|  | Material $\mathbf{X}$ | Material Y |
| :--- | :--- | :--- |
| A. Required for Production |  |  |
| Super | 69,160 | 20,550 |
| Supreme | 59,280 | 32,880 |
|  | 89,710 | 92,160 |
| B. Add closing stock | 4,000 | 2,400 |
|  | 93,710 | 94,560 |
| C. Less Opening Stock | $(5,000)$ | $(3,000)$ |
| D. Forecasted purchases of raw material in Kgs | 88,710 | 91,560 |

## Purchase Price

Take these figures from the question

1. The question says the following about the purchase price for raw materials
' The expected price for raw materials during 2009 are

| Material $X$ | $€ 3.00$ per Kg |
| :--- | :--- |
| Material $Y$ | $€ 5.00$ per Kg |

Taken from the question
2. Use these figures for the purchase price - Material $X € 3.00$ and Material $Y € 5.00$

|  | Material $\mathbf{X}$ | Material Y |
| :--- | :--- | :--- |
| A. Required for Production |  |  |
| Super | 69,160 | 20,550 |
| Supreme | 59,280 | 32,880 |
|  | 89,710 | 92,160 |
| B. Add closing stock | 4,000 | 2,400 |
|  | 93,710 | 94,560 |
| C. Less Opening Stock | $(5,000)$ | $(3,000)$ |
| D. Forecasted purchases of raw material in Kgs | 88,710 | 91,560 |
| E. Purchase Price | $€ 3.00$ | $€ 5.00$ |

NOTE - Remember to multiply these two figures to the forecasted of raw materials in $€$ figure

## Forecasted Purchases of Raw Materials $€$

## Use the figures in your answer

1. To calculate the forecasted purchase of raw material in $€$ figure you multiple the expected price figure and the previous figure

| Raw material purchases budget (in units and $€$ ) for Roche Ltd |  |  |
| :--- | :--- | :--- |
|  | Material X | Material Y |
| A. Required for Production |  |  |
| Super | 69,160 | 20,550 |
| Supreme | 59,280 | 32,880 |
|  | 89,710 | 92,160 |
| B. Add closing stock | 4,000 | 2,400 |
|  | 93,710 | 94,560 |
| C. Less Opening Stock | $(5,000)$ | $(3,000)$ |
| D. Forecasted purchases of raw material in Kgs | 88,710 | 91,560 |
| E. Forecasted purchases of raw material in Kgs | $€ 3,00$ | $€ 5.00$ |
| F. Forecasted purchase of raw material in $€$ | 266,130 | 457,800 |

NOTE - Remember to include the heading - Raw material purchases budget (in units and €) for Roche Ltd

## PART C

Part $C$ is asking you to Prepare a production cost / manufacturing budget. The layout for this is the same layout as a manufacturing account and will look like the following

| Manufacturing budget for Roche Ltd for year ended <br> 31.12 .09 |  |  |
| :--- | :--- | :---: |
| Direct Materials |  |  |
| Opening stock raw materials |  | $x$ |
| Add Purchase of raw materials |  | $\times$ |
|  |  | $x$ |
| Less Closing stock raw materials |  | $(x)$ |
| Cost of raw materials consumed |  | $x$ |
| Direct Labour |  |  |
| Cost of labour |  | $x$ |
| Variable Overheads |  | $x$ |
| Variable Overhead |  |  |
| Fixed Overheads |  | $\times$ |
| Fixed Overheads |  | $x$ |
| Cost of Manufacture |  |  |

## Opening stock raw materials

An adjustment is needed here

1. We need to calculate the total figure in euros for opening stock of raw materials
2. To do this we will need a working using the information for raw material - units and price per kgs
3. The question says the following about raw materials
'Stock of raw material on 01/01/2009 are expected to be'

| Material X | $5,000 \mathrm{Kgs} @ € 2.50$ per Kg |
| :--- | :--- |
| Material Y | $3,000 \mathrm{Kgs} @ € 4.50$ per Kg |

Taken from the question

## Workings

Material X

| Kgs | 5,000 | Taken from the question |
| :--- | :--- | :--- |
| Price per Kgs | $\frac{(x) € 2.50}{€ 12,500}$ | Taken from the question |
|  | Opening stock raw materials |  |

Material Y


NOTE - Remember to add these two figures together to get the total $(12,500+13,500=$ $26,000)$

## Purchases raw materials

## Use the figures from Part B

1. The figure for purchases raw material has already been calculated in Part $B$
2. Use the total figure for material $X-266,130$ and material $Y-457,780$

| Direct Materials |  |  |
| :--- | :--- | :---: |
| Opening stock raw materials |  |  |
| Material X | 12,500 |  |
| Material Y | 13,500 | 26,000 |
| Add Purchase of raw materials |  |  |
| Material X | 266,130 |  |
| Material Y | 457,780 | 723,930 |

NOTE - Remember to add these two figures together to get the total $(266,130+457,780=$ $723,930)$

## Closing stock raw materials

## An adjustment is needed here

1. We need to calculate the total figure in euros for closing stock of raw materials
2. To do this we use the figure for closing stock that has been calculated in part B material X 4,000 and material Y 2,400
3. The question says the following about raw materials
'The expected price for raw materials during 2009 are

| Material X | $€ 3.00$ per Kg |
| :--- | :--- |
| Material $Y$ | $€ 5.00$ per Kg |

Taken from the question

## Workings

Material X

| Kgs | 4,000 | Taken from Part B |
| :--- | :--- | :--- |
| Price per Kgs | $\underline{(x) € 3.00}$ |  |
|  | $€ 12,000$ |  |
|  | Taken from the question |  |
|  | Closing stock raw materials |  |

Material Y

| Kgs | 2,400 | Taken from the question |
| :--- | :--- | :--- |
| Price per Kgs | $\frac{(x) € 5.00}{}$ | Taken from the question |
|  | $€ 12,000$ | Opening stock raw materials |


| Direct Materials |  |  |
| :--- | :--- | :---: |
| Opening stock raw materials |  |  |
| Material X | 12,500 |  |
| Material Y | 13,500 | 26,000 |
| Add Purchase of raw materials |  |  |
| Material X | 266,130 |  |
| Material Y | 457,780 | 723,930 |
| Less Closing stock raw materials |  |  |
| Material X | 12,000 |  |
| Material Y | 12,000 | $(24,000)$ |

NOTE - Remember to add these two figures together to get the total $(12,000+12,000=$ 24,000 ). Take the closing stock figure 24,000 away

## Cost of raw materials consumer

## An adjustment is needed here

1. To calculate the cost of raw materials consumer we use the following formula

Total figure for opening stock + total figure for purchases - total figure for closing stock

| Direct Materials |  |  |
| :--- | :--- | :---: |
| Opening stock raw materials |  |  |
| Material X | 12,500 |  |
| Material Y | 13,500 | 26,000 |
| Add Purchase of raw materials |  |  |
| Material X | 266,130 |  |
| Material Y | 457,780 | 723,930 |
| Less Closing stock raw materials |  |  |
| Material X | 12,000 |  |
| Material Y |  | $(24,000)$ |
| Cost of raw materials consumed | 729,930 |  |

## Direct Labour

An adjustment is needed here

1. We need to calculate the cost of the direct labour for making the 2 products (Use the units calculated in Part A)
2. To do this we will need a working using the information for raw material - skilled labour
3. The question says the following about raw materials
'The skilled labour rate is expected to be €13.00 per hour'
and
"both products use the same raw materials and skilled labour but in different quantities per unit as follows'

|  | Super | Supreme |
| :--- | :--- | :--- |
| Material $X$ | 7 kgs | 5 kgs |
| Material $Y$ | 6 kgs | 8 kgs |
| Skilled Labour | 7 Hours | 8 Hours |

Taken from the question

| Workings |  |  |  | Exam use hours Labour) |
| :---: | :---: | :---: | :---: | :---: |
| Super |  |  |  |  |
| Budget production in units |  | 9,880 Tak | from Part $A$ |  |
| Skilled hours needed |  | $\underline{(x) 7}$ 7ak | Taken from the question |  |
|  |  | 69,160 Hour | needed |  |
| Skilled labour rate |  | (x) $€ 13.00$ Tak | Taken from the question |  |
|  |  | 899,080 |  |  |
| Supreme |  |  |  |  |
| Budget production in units |  | 4,110 Tak | Taken from Part A |  |
| Skilled hours needed |  | (x) 8 Tak | Taken from the question |  |
|  |  | 32,880 Hour | Hours needed |  |
| Skilled labour rate |  | (x)€13.00 Tak | Taken from the question |  |
|  |  | 427,440 |  |  |
|  | Direct Materials |  |  |  |
|  | Opening stock raw materials |  |  |  |
|  | Material X |  | 12,500 |  |
|  | Material Y |  | 13,500 | 26,000 |
|  | Add Purchase of raw materials |  |  |  |
|  | Material X |  | 266,130 |  |
|  | Material Y |  | 457,780 | 723,930 |
|  | Less Closing stock raw materials |  |  |  |
|  | Material X |  | 12,000 |  |
|  | Material Y |  | 12,000 | $(24,000)$ |
|  | Cost of raw materials consumed |  |  | 729,930 |
|  | Direct Labour |  |  |  |
|  | Cost of labour |  |  |  |
|  | Super |  | 899,080 |  |
|  | Supreme |  | 427,440 | 1,326,520 |

## Variable Overheads

## An adjustment is needed here

Remember - variable overhead means the more you produce a unit of a product the overheads to produce the product increase.

1. We need to calculate the total variable overheads for making the 2 products (Use the units calculated in Part A)
2. To do this we will still use the information for calculating labour cost but this time we will multiply by the variable rate instead of the skilled labour rate
3. The question says the following about variable overheads
'production overhead costs are expected to be:

| Variable | $€ 4.00$ | Per skilled labour hour |
| :--- | :--- | :--- |
| Fixed | $€ 204,080$ | Per annum |

Taken from the question
and
"both products use the same raw materials and skilled labour but in different quantities per unit as follows'

|  | Super | Supreme |
| :--- | :--- | :--- |
| Material $X$ | 7 kgs | 5 kgs |
| Material $Y$ | 6 kgs | 8 kgs |
| Skilled Labour | 7 Hours | 8 Hours |

Taken from the question

## Workings

## Super

| Budget production in units | 9,880 | Taken from Part A |
| :--- | :--- | :--- |
| Skilled hours needed | $\underline{(x) 7}$ | Taken from the question |
|  | 69,160 | Hours needed |
| Skilled labour rate | $\underline{(x) € 4.00}$ | Taken from the question |
|  | 276,640 |  |

Exam Tip - This is the same working as the direct labour working except, we use the variable rate per skilled labour hour

Exam Tip - Make use to use hours needed (skilled Labour) and the variable rate per skilled labour hour

Supreme

| Budget production in units | 4,110 | Taken from Part A |
| :--- | :--- | :--- |
| Skilled hours needed | $\underline{(x) 8}$ | Taken from the question |
| Skilled labour rate | 32,880 | Hours needed |
|  | $\underline{(x) € 4.00}$ | Taken from the question |
|  | 131,520 |  |


| Direct Materials |  |  |
| :---: | :---: | :---: |
| Opening stock raw materials |  |  |
| Material X | 12,500 |  |
| Material Y | 13,500 | 26,000 |
| Add Purchase of raw materials |  |  |
| Material X | 266,130 |  |
| Material Y | 457,780 | 723,930 |
| Less Closing stock raw materials |  |  |
| Material X | 12,000 |  |
| Material Y | 12,000 | $(24,000)$ |
| Cost of raw materials consumed |  | 729,930 |
| Direct Labour |  |  |
| Cost of labour |  |  |
| Super | 899,080 |  |
| Supreme | 427,440 | 1,326,520 |
| Variable Overheads |  |  |
| Super | 276,640 |  |
| Supreme | 131,520 | 408,160 |

Fixed Overheads
Take these figures from the question

1. These figures are taken straight from the question
2. The question says the following about fixed overheads
'production overhead costs are expected to be:

| Variable | $€ 4.00$ | Per skilled labour hour |
| :--- | :--- | :--- |
| Fixed | $€ 204,080$ | Per annum |

Taken from the question
3. We use the figure of $€ 204,080$ as the fixed overhead figure

| Direct Materials |  |  |
| :--- | :--- | :---: |
| Opening stock raw materials |  |  |
| Material X | 12,500 |  |
| Material Y | 13,500 | 26,000 |
| Add Purchase of raw materials |  |  |
| Material X | 266,130 |  |
| Material Y | 457,780 | 723,930 |
| Less Closing stock raw materials |  |  |
| Material X | 12,000 |  |
| Material Y | 12,000 | $(24,000)$ |
| Cost of raw materials consumed |  | 729,930 |
| Direct Labour | 899,080 |  |
| Cost of labour | 427,440 | $1,326,520$ |
| Super |  |  |
| Supreme | 276,640 |  |
| Variable Overheads | 131,520 | 408,160 |
| Super |  |  |
| Supreme | 204,080 |  |
| Fixed Overheads |  |  |
| Fixed Overheads |  |  |

## Cost of manufacture

## An adjustment is needed here

1. To calculate the cost of manufacture we add up the following totals - cost of raw material consumed + cost of labour + variable overheads + fixed overheads

$$
725,930+1,326,520+408,160+204,080=2,664,690
$$

| Production cost/manufacturing budget for Roche LTD for year ended 31/12/2009 |  |  |
| :---: | :---: | :---: |
| Direct Materials |  |  |
| Opening stock raw materials |  |  |
| Material X | 12,500 |  |
| Material Y | 13,500 | 26,000 |
| Add Purchase of raw materials |  |  |
| Material X | 266,130 |  |
| Material Y | 457,780 | 723,930 |
| Less Closing stock raw materials |  |  |
| Material X | 12,000 |  |
| Material Y | 12,000 | $(24,000)$ |
| Cost of raw materials consumed |  | 729,930 |
| Direct Labour |  |  |
| Cost of labour |  |  |
| Super | 899,080 |  |
| Supreme | 427,440 | 1,326,520 |
| Variable Overheads |  |  |
| Super | 276,640 |  |
| Supreme | 131,520 | 408,160 |
| Fixed Overheads |  |  |
| Fixed Overheads |  | 204,080 |
| Cost of Manufacture |  | 2,664,690 |

NOTE - Remember to include the heading - Production cost/manufacturing budget for Roche LTD for year ended 31/12/2015

## PART D

Part $D$ is asking you to prepare a budget trading account but first you must calculate the closing stock value per unit for each product (Golden and Portland). You will use the same headings as part $C$ but we will be working out the figure per unit and NOT the total figure.

NOTE - in this question they have given you the budget cost per unit for both products (Super $€ 220$ and Supreme €260). SO we don't have to calculate this figure

Budget Trading Account
The second part of Part D is to prepare the budget trading account is the same layout as Question 1 and will look something like this. Remember to use the closing stock figure per unit from the above working

| Budget trading account for Crowley LTD for year ended <br> $31 / 12 / 2015$ |  |  |
| :--- | :---: | :---: |
| Sales |  | $x$ |
| Less Cost of Sales |  |  |
| Opening stock | $x$ |  |
| Add Cost of manufacturing | $x$ |  |
|  | $x$ |  |
| Less Closing Stock | $x$ | $(x)$ |
| Gross Profit |  | $\times$ |

## Sales

A calculation is needed here

1. To calculate the sales revenue figure for the trading account we need to use the expected units to be sold and multiply it by the price to be charged for each product
2. This information will usually be given at the start of the question
3. The information that we need from the question will be as follows
'It expects to sell two products - Super at $€ 220$ and Supreme at $€ 260^{\prime}$
And

|  | Super | Supreme |
| :---: | :---: | :---: |
| Sales are expected to be: | 10,000 units | 4,200 units |

## Working

Super

| Expected Sales | 10,000 | taken from question |
| :--- | :--- | :--- |
| Selling Price | $\underline{€ 220}$ | taken from question |
|  | $€ 2,200,000$ | Sale revenue for Micro |

Excel

| Expected Sales | 4,200 | taken from question |
| :--- | :--- | :--- |
| Selling Price | $€ 360$ | taken from question |
|  | $€ 1,092,000$ | Sale revenue for Excel |

Total Sales Revenue

| Super | $€ 2,200,000$ | see working above |
| :--- | :--- | :--- | :--- |
| Supreme | $€ 1,092,000$ | see working above |
| Total | $€ 3,292,000$ | Total sale revenue figure |

## Opening Stock

## A calculation is needed here

1. To calculate the total opening stock figure for the trading account we needed to use the opening stock figure in the question and multiply it by the value of the opening stock
2. The information that we need from the question will be as follows 'stock of finished good on 01/01/2009 are expected to be:'

| Super | 600 units at $€ 120$ |
| :--- | :--- |
| Supreme | 450 units at $€ 140$ |

Working
Super
Expected opening stock
Value of opening stock

600
(*) $€ 120$
€72,000

Tip - Remember to use the figure for finished goods and not raw materials

Supreme

| Expected opening stock | 450 | taken from question |
| :--- | :--- | :--- |
| Value of opening stock | $\frac{(\star) € 140}{}$ | taken from question |
|  | $€ 63,000$ |  |
|  | Opening stock value Excel |  |

Total opening stock figure

| Super | €72,000 | see working above |  |
| :---: | :---: | :---: | :---: |
| Supreme | €63,000 | see working above |  |
| Total | €135,000 | Total opening stock figure |  |
|  | Sales |  | 3,292,000 |
|  | Less Cost of Sales |  |  |
|  | Opening stock | 135,000 |  |

## Purchases (Cost of manufacture)

Take these figures from part $C$

1. The figure for purchases (cost of manufacture) is already calculate as part of Part C€2,799,690

| Sales |  |  | $3,292,000$ |
| :--- | :--- | :--- | :--- |
| Less Cost of Sales |  |  |  |
| Opening stock |  | 135,000 |  |
| Add Cost of Manufacture |  | $(+) 2,799,690$ |  |
|  |  | $2,799,690$ |  |

Note - Remember to add the opening stock figure and the cost of manufacture figure together $€ 135,000+€ 2,799,690=€ 2,799,690$

## Closing Stock

A calculation is needed here

1. To calculate the closing stock figure we use the closing stock figures from Part $A$ (Micro - 640 and Excel - 440)
2. We then multiply these figures by the cost per unit figure for both products. These are given in the question (Micro - €160 and Excel €184)

## Working

Super

| Closing stock | 480 | taken from Part A |
| :--- | :--- | :--- |
| Cost per unit | $\frac{\text { 土 }^{\star} € 180}{}$ | taken from the question |
|  | $€ 86,400$ |  |
|  | Closing stock value Golden |  |

Supreme

| Closing stock | 360 | taken from Part A |
| :--- | :--- | :--- |
| Cost per unit | $(\star) € 210$  taken from the question <br>  $€ 75,600$  <br>  Closing stock value Golden  |  |

## Total closing stock figure

| Super | € 86,400 | see working above |  |
| :---: | :---: | :---: | :---: |
| Supreme | € 75,600 | see working above |  |
| Total | €162,000 | Total opening stock figure |  |
|  | Sales |  | 3,292,000 |
|  | Less Cost of Sales |  |  |
|  | Opening stock | 135,000 |  |
|  | Add Cost of Manufacture | (+) 2,799,690 |  |
|  |  | 2,799,690 |  |
|  | Less Closing Stock | $(162,000)$ | 2,637,690 |

NOTE - Remember to take the closing stock figure away from the previous figure ( $€ 2,799,690$ $162,000=2,637,690)$

## Gross Profit

Take the figures from the question

1. To calculate the Gross Profit figure for Dark and Light take these two figures away from each other 3,292,000-2,637,690

| Budget trading account for Roche Ltd for year ended 31.12.2009 |  |  |  |
| :--- | :--- | :--- | :--- |
| Sales |  |  | $3,292,000$ |
| Less Cost of Sales |  |  |  |
| Opening stock |  | 135,000 |  |
| Add Cost of Manufacture |  | $(+) 2,799,690$ |  |
|  |  | $2,799,690$ |  |
| Less Closing Stock |  | $(162,000)$ | $2,637,690$ |
| Gross Profit |  |  | 654,310 |

NOTE - Remember to include the heading - Budgeted Trading account Roche Ltd for year ended 31.12 .09

## PART E

This is the theory part of the question and includes the following

## (i) Define what is meant by a Cash Budget and explain two advantages of a Cash

 Budget
## Cash Budget

A Cash Budget is a plan or forecast that summarises the expected inflows and outflows of cash during a period. This budget is prepared by the management accountant or the financial accountant.

## Advantages

1. A cash budget will anticipate periods when the organization will have cash surpluses and will enable it to arrange short term investments.
2. A cash budget will anticipate periods when the organization will have cash deficits and will enable it to make arrangements for a loan or overdraft.
3. A cash budget will help in making sure that there is always enough funds available to meet the day to day needs of the business.
(ii) The Principal Budget factor is sales demand in most organisations. State two other factors that could also be considered to be the Principal Budget factor.
4. Availability of materials
5. Availability of labour
6. Capacity of the plant
7. Availability of capital
