## Cash Budgets

## Murray LTD

## 2013

## Step By Step

Approach

## PART A

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

| A. Sales in units | These figures are usually taken from the question |
| :--- | :--- | :--- |
| stock |  |$\quad$| 1.There will be a certain percentage of stock to be produced for the <br> next month |
| :--- |
| 2. will be calculated by using the sales units sold for the next |
| month by the percentage given in the question |
| 3. It is added back on because it is the company's policy to product |
| some units for the next period (Month) |

## Sales

Take these figures from the question

1. These figures are taken straight from the question

|  | Jan | Feb | Mar | April | May |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Sales | 7,000 | 8,000 | 10,000 | 9,000 | 10,500 |

Taken from the question

## Closing Stock

An adjustment is needed here

1. See part (ii) from the question - it says
'Stock of finished goods are maintained at $70 \%$ of the following month's sales requirement.'
2. This means that at the end of Jan we should have $70 \%$ of February's sales in closing Stock.
3. The following workings show you how to calculate the closing stock figure for each month

## Workings

## January

8,000 (Feb sales in units ) * 70\%
$=€ 5,600$

## March

9,000 (April sales in units) * 70\%
$=€ 6,300$

## February

10,000 (March sales in units ) * 70\%
$=€ 7,000$

Even though it says for 4 months in the question, we need to calculate the closing stock for November as well. This will be needed for part $B$

## May

11,000 units (June sales in units) * 70\%

Tip - each of the unit's
figure for the month is taken from the question
$=€ 7,700$

|  | Jan | Feb | Mar | April | May |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Sales | 7,000 | 8,000 | 10,000 | 9,000 | 10,500 |
| + Closing stock | $(+) 5,600$ | $(+) 7,000$ | $(+) 6,300$ | $(+) 7,350$ | $(+) 7,700$ |
|  | 12,600 | 15,000 | 16,300 | 16,350 | 18,200 |

NOTE - Remember to add the sales figure and closing stock figure together to see what the total units that will be produced each month.

The next step will take the opening stock away for each month

## Opening Stock

Take these figures from closing stock

1. Remember the closing stock figure for one month is the opening stock figure for the next month.
2. We take away the opening stock figure because it is already included in the previous months figure. In this question we don't know the closing stock figure for Jan so we will put is 0 (Zero) for the opening figure for July.
3. The Opening stock figure for Feb will be the closing stock figure for Jan and this will continue for the other months

|  | Jan | Feb | Mar | April | May |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Sales | 7,000 | 8,000 | 10,000 | 9,000 | 10,500 |
| + Closing stock | $(+) 5,600$ | $(+) 7,000$ | $(+) 6,300$ | $(+) 7,350$ | $(+) 7,700$ |
|  | 12,600 | 15,000 | 16,300 | 16,350 | 18,200 |
| - Opening Stock | 0 | $(+) 5,600$ | $(+) 7,000$ | $(+) 6,300$ | $(+) 7,350$ |

## Required for Production

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 $B$ to help calculate the raw materials purchases budget

| Production budget for Murray Ltd for the four months |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: |
|  | Jan | Feb | Mar | April | May |  |
| Sales | 7,000 | 8,000 | 10,000 | 9,000 | 10,500 |  |
| + Closing stock | $(+) 5,600$ | $(+) 7,000$ | $(+) 6,300$ | $(+) 7,350$ | $(+) 7,700$ |  |
|  | 12,600 | 15,000 | 16,300 | 16,350 | 18,200 |  |
| - Opening Stock | 0 | $(+) 5,600$ | $(+) 7,000$ | $(+) 6,300$ | $(+) 7,350$ |  |
| Required for Production | 12,600 | 9,400 | 9,300 | 10,050 | 10,850 |  |

NOTE - Remember to include the heading - Production budget for Murray Ltd for the four months

## PART B

Part $B$ is asking you to calculate the raw materials purchases budget for four months. This is how much of a certain material is needed each month to produce the units that have to be made each month (calculated in part A). The layout is similar to Part A and look like this

| A. Units of Production | Calculated in Part A - Required for Production |
| :---: | :---: |
| B. Materials Per Unit | 1. This figure is usually given in the question (see part (ii)) <br> 2. Multiply this figure by the Units of production figure $(A)$ |
| C. Required for production | Add the figure for $A$ and $B$ together |
| D. Add Closing stock | 1. There will be a certain percentage of stock of raw material to be held at the end of each month (see part (iii)) <br> 2. It will be calculated by using the required for production for the next month and multiply it by the percentage given in the question <br> 3. It is added back on because it is the company's policy to keep some raw materials from next month as part of this months (as per the question) |
| E. Less Opening Stock | 1. Remember the closing figure for one moth is the opening figure for the next month <br> 2. We take this figure away because the units have been produced in the previous month as per the question |
| F. Required for Production | 1. Take the figure for $D$ away from the figure calculate for $C$ <br> 2. This figure will be used late on in Part |

## Units of Production

Take these from Part A

1. Take these figures form part $A$
2. The unit for production figures are the figures that were calculate at the end of Part $A$ - Required for Production

|  | Jan | Feb | Mar | April | May |
| :--- | ---: | :---: | :--- | :---: | :---: |
| A. Units of Production | 12,600 | 9,400 | 9,300 | 10,050 | 10,850 |

Taken form Part A

## Materials Per Unit

Use the figure that is given in the question

1. See part (ii) from the question - it says
'Each product unit requires 5 kgs of material $X$ which costs $€ 2$ per $K^{\prime \prime}$ '

|  | Jan | Feb | Mar | April | May |
| :--- | :--- | :--- | :--- | :--- | :--- |
| A. Units of Production | 12,600 | 9,400 | 9,300 | 10,050 | 10,850 |
| B. Materials Per Unit | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ |

Required for Production
An adjustment is needed here

1. This is where we multiply the figure in $A$ (Units of Production) by $B$ (Materials per Unit)

|  | Jan | Feb | Mar | April | May |
| :--- | :--- | :--- | :--- | :--- | :--- |
| A. Units of Production | 12,600 | 9,400 | 9,300 | 10,050 | 10,850 |
| B. Materials Per Unit | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ |
| C. Required for Production | 63,000 | 47,000 | 46,500 | 50,250 | 54,250 |

## Closing Stock

An adjustment is needed here

1. See part (iii) from the question - it says
'Stocks of raw materials sufficient for $20 \%$ of the following month's requirement in kgs are held at the end of each month'
2. This means that at the end of Jan we should have $20 \%$ of Feb kgs in closing Stock

## Workings

Jan
47,000 (Feb requirements) * 20\% = €9,400
Feb
46,500 (Mar requirements) * 20\%
= €9,300

Mar
50,250 (April requirements) * 20\% $=€ 10,050$

April
54,250 (November Requirements) * 620\%
$=€ 10,850$

Note - This is the reason we have a column for May to help calculate the closing stock for April

| 4 months raw materials purchases budget (in units and $\boldsymbol{\ell}$ ) for Murray Ltd |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Jan | Feb | Mar | April | May |
| A. Units of Production | 12,600 | 9,400 | 9,300 | 10,050 | 10,850 |
| B. Materials Per Unit | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ |
| C. Required for Production | 63,000 | 47,000 | 46,500 | 50,250 | 54,250 |
| D. + Closing Stock | $(+) 9,400$ | $(+) 9,300$ | $(+) 10,050$ | $(+) 10,850$ |  |
|  | 72,400 | 56,300 | 56,550 | 61,100 |  |

NOTE - Remember to add the figures for required for production and closing stock together The next step will take the opening stock away for each month

## Opening Stock

Take these figures from closing stock

1. Remember the closing stock figure for one month is the opening stock figure for the next month.
2. We take away the opening stock figure because it is already included in the previous months figure.

In this question we don't know the closing stock figure for Jan so we will put is 0 (Zero) for the opening figure for Jan. The Opening stock figure for Feb will be the closing stock figure for Jan and this will continue for the other months

| 4 months raw materials purchases budget (in units and $\boldsymbol{\epsilon}$ ) for Murray Ltd |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Jan | Feb | Mar | April | May |
| A. Units of Production | 12,600 | 9,400 | 9,300 | 10,050 | 10,850 |
| B. Materials Per Unit | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ |
| C. Required for Production | 63,000 | 47,000 | 46,500 | 50,250 | 54,250 |
| D. + Closing Stock | $(+) 9,400$ | $(+) 9,300$ | $(+) 10,050$ | $(+) 10,850$ |  |
|  | 72,400 | 56,300 | 56,550 | 61,100 |  |
| E. - Opening Stock | 0 | $(-) 9,400$ | $(-) 9,300$ | $(-) 10,050$ |  |

## Required for Purchases

Take these figures from previous figures (workings)

1. This is when you take away opening stock away from the figure above it.

| 4 months raw materials purchases budget (in units and $\boldsymbol{\epsilon}$ ) for Murray Ltd |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Jan | Feb | Mar | April | May |
| A. Units of Production | 12,600 | 9,400 | 9,300 | 10,050 | 10,850 |
| B. Materials Per Unit | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ |
| C. Required for Production | 63,000 | 47,000 | 46,500 | 50,250 | 54,250 |
| D. + Closing Stock | $(+) 9,400$ | $(+) 9,300$ | $(+) 10,050$ | $(+) 10,850$ |  |
|  | 72,400 | 56,300 | 56,550 | 61,100 |  |
| E. - Opening Stock | 0 | $(-) 9,400$ | $(-) 9,300$ | $(-) 10,050$ |  |
| F. Required For Purchase | 72,400 | 46,900 | 47,250 | 51,050 |  |

## Price Per KG

Use the figure that is given in the question

1. See part (i) from the question - it says
'Each product unit requires 5 kgs of material $X$ which costs $€ 2.00$ per $\mathrm{Kg}^{\prime}$

| 4 months raw materials purchases budget (in units and $€$ ) for Murray Ltd |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Jan | Feb | Mar | April | May |
| A. Units of Production | 12,600 | 9,400 | 9,300 | 10,050 | 10,850 |
| B. Materials Per Unit | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ |
| C. Required for Production | 63,000 | 47,000 | 46,500 | 50,250 | 54,250 |
| D. + Closing Stock | $(+) 9,400$ | $(+) 9,300$ | $(+) 10,050$ | $(+) 10,850$ |  |
|  | 72,400 | 56,300 | 56,550 | 61,100 |  |
| E. - Opening Stock | 0 | $(-) 9,400$ | $(-) 9,300$ | $(-) 10,050$ |  |
| G. Required For Purchase | 72,400 | 46,900 | 47,250 | 51,050 |  |
| H. Price Per KG | $€ 2$ | $€ 2$ | $€ 2$ | $€ 2$ |  |

## Cost of Raw Material

An adjustment is needed here

1. This is where we multiply the figure in I (Required for Purchase) by J (Price per KG)

| 4 months raw materials purchases budget (in units and $€$ ) for Murray Ltd |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Jan | Feb | Mar | April | May |
| A. Units of Production | 12,600 | 9,400 | 9,300 | 10,050 | 10,850 |
| B. Materials Per Unit | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ |
| C. Required for Production | 63,000 | 47,000 | 46,500 | 50,250 | 54,250 |
| D. + Closing Stock | $(+) 9,400$ | $(+) 9,300$ | $(+) 10,050$ | $(+) 10,850$ |  |
|  | 72,400 | 56,300 | 56,550 | 61,100 |  |
| E. - Opening Stock | 0 | $(-) 9,400$ | $(-) 9,300$ | $(-) 10,050$ |  |
| I. Required For Purchase | 72,400 | 46,900 | 47,250 | 51,050 |  |
| J. Price Per KG | $€ 2$ | $€ 2$ | $€ 2$ | $€ 2$ |  |
| K. Cost of Raw Material | 144,800 | 93,800 | 94,500 | 102,100 |  |

NOTE - Remember to include the heading - 4 months raw material purchases budget (in units and $€$ ) for Murray Ltd

## PART C

Part $C$ is asking you to Prepare a cash budget for four months. The budget will look like the following

| Cash budget for Murray Ltd for the four months January to April 2014. |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Receipts | January | February | March | April | Total |
| Cash Sales | 84,000 | 96,000 | 120,000 | 108,000 | 408,000 |
| Credit Sales 1 |  | 63,000 | 72,000 | 90,000 | 225,000 |
| Credit Sales 2 |  |  | 63,000 | 72,000 | 135,000 |
| 1. Total Receipts | 84,000 | 159,000 | 255,000 | 270,000 | 768,000 |
| Payments |  |  |  |  |  |
| Purchases | 25,000 | 25,000 | 25,000 | 25,000 | 100,000 |
| Wages | 63,000 | 47,000 | 46,500 | 50,250 | 206,750 |
| Variable Overheads | 29,250 | 29,250 | 29,250 | 29,250 | 117,000 |
| Fixed Overheads | 45,000 |  |  |  | 45,000 |
| Equipment | 250 | 250 | 250 | 250 | 1,000 |
| Loan interest | 162,500 | 246,300 | 194,800 | 199,250 | 802,850 |
| 2. Total Payments | $(78,500)$ | $(87,300)$ | 60,200 | 70,750 | $(34,850)$ |
| Net Cash |  | $(+) 48,500$ | $(+)(135,800)$ | $(75,600)$ |  |
| Opening Cash | $(+) 30,000$ |  |  |  | $(+) 30,000$ |
| Bank Loan | 48,500 | $(135,800)$ | $(75,600)$ | $(4,850)$ | $(4,850)$ |
| Closing Cash |  |  |  |  |  |

NOTE - You don't have to complete the total column but the closing cash for April and the closing cash for the Total Column must be the same - this can be a way to check if the question has been completed correctly - TIMING MAY BE AN ISSUE HERE

Important totals are as follows. These will be needed for part $D$ when you will have to prepare a budgeted profit and loss account.

| Wages | Variable Overheads |
| :--- | :--- |
| Fixed Costs | Loan Interest |

Remember to include - Interest and depreciation as well for part D

## RECEIPTS

## An adjustment is needed here

This is the income for the business over a four-month period. In the question under part (iv) It gives you cash customer and credit customers

## Cash and Credit Receipts

1. Cash customer says that $40 \%$ of sale revenue will be for immediate cash Here you will have to
a. Take the revenue figure given in the question and multiply it by $40 \%$ to get the cash figure
2. Credit customer says $60 \%$ of sales revenue will be from credit customer These debtors will pay their bills $50 \%$ in the month after sale and the remainder in the second month after sale.
a. Using the credit figure that is let from 1 above get $50 \%$ of it

|  | January | February | March | April |
| :--- | :--- | :--- | :--- | :---: |
| Sales Revenue | 210,000 | 240,000 | 300,000 | 270,000 |

Taken from the question

## Workings

## January

Cash Receipts
€210,000 * 40\%
(-) $€ 84,000$ Cash January
€126,000

## Credit Receipts

€126,000 * 50\%
$\begin{array}{ll}(-) € 63,000 & \text { (Credit } 1 \text { - February) } \\ € 63,000 & \text { (Credit } 2-\text { March) }\end{array}$

Cash Receipts
€240,000 * 40\%
$(-) € 96,000$
Cash February
€144,000

## Credit Receipts

€ 144,000 * 50\%
$\begin{array}{ll}(-) € 72,000 & \text { (Credit } 1 \text { - March) } \\ € 72,000 & \text { (Credit } 2 \text { - April) }\end{array}$

## March

Cash Receipts
€ 300,000 * 40\%
(-) $€ 120,000$ Cash March
€ 180,000

Credit Receipts
€ 180,000 * $50 \%$
(-) $€ 90,000$
€90,000
(Credit 1 - April)
(Credit 2 - Debtor)

## April

Cash Receipts
€ 270,000 * 40\%
(-) $€ 108,000$ Cash April
€162,000

Credit Receipts
€ 162,000 * $50 \%$
$\begin{array}{ll}(-) € 81,000 & \text { (Credit } 1 \text { - Debtor) } \\ € 81,000 & \text { (Credit } 2 \text { - Debtor) }\end{array}$

| Receipts | January | February | March | April | Total |
| :--- | :--- | :--- | :--- | :---: | :---: |
| Cash Sales | 84,000 | 96,000 | 120,000 | 108,000 | 408,000 |
| Credit Sales 1 |  | 63,000 | 72,000 | 90,000 | 225,000 |
| Credit Sales 2 |  |  | 63,000 | 72,000 | 135,000 |

## Debtors Figure

NOTE - The March figure Credit 2 of $€ 90,000$ and April credit 1 and credit 2 of $€ 80,000$ is not included in the cash budget as the budget is only for 4 months and would be the debtors figure if you were asked to complete a balance sheet

## Total Receipts

## An adjustment is needed here

1. To calculate the Total Receipts, we add up the figures cash sale and credit sales for each month

| Receipts | January | February | March | April | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Cash Sales | 84,000 | 96,000 | 120,000 | 108,000 | 408,000 |
| Credit Sales 1 |  | 63,000 | 72,000 | 90,000 | 225,000 |
| Credit Sales 2 |  |  | 63,000 | 72,000 | 135,000 |
| 1. Total Receipts | 84,000 | 159,000 | 255,000 | 270,000 | 768,000 |

## PAYMENTS

We keep working down through the question. The next Adjustment (v), relates to purchases
'One month's credit is received from suppliers.'

## Purchases

An adjustment is needed here

1. The purchases figures have already been calculated as part of Part $B$.

|  | January | February | March | April |
| :--- | :--- | :--- | :--- | :---: |
| L. Cost of Raw Material | 144,800 | 93,800 | 94,500 | 102,100 |

Taken from Part B
2. See part (v) from the question - it says 'one month's credit is receive from suppliers'
3. This means that July is not due until August, August is not due until Sept and so forth.

| Receipts | July | August | September | October | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Cash Sales | 216,660 | 220,440 | 224,200 | 226,100 | 887,300 |
| Credit Sales | 0 | 342,000 | 348,000 | 354,000 | $1,044,000$ |
| 1. Total Receipts | 216,660 | 562,400 | 572,220 | 580,100 | $1,931,300$ |
| Payments |  |  |  |  |  |
| Purchases |  | 144,800 | 93,800 | 94,500 | 333,100 |

## Creditors Figure

NOTE - The April figure of $€ 102,100$ is not included in the cash budget as the budget is only for 4 months. But this $€ 102,100$ would be the creditors figure if you were asked to complete a balance sheet

## EXPENSES

NOTE -

1. Adjustment (vi) will give you the list of the rest of the expenses that will go in the payments section of the cash budget. These include
(a) Wages
(b) Variable Overheads
(c) Fixed Overheads
(d) Equipment (Just the figure from the question)
(e) Loan Repayment
(f) Loan Interest
2. Work down through these expenses, complete the working (if needed) and enter the figures into the Cash Budget

Remember not to include depreciation as this is not cash and only cash items are entered into the cash budget but the depreciation for will be included in part $D$ - prepare a budgets trading and profit and loss account for Houghton Ltd

## Wages

## An adjustment is needed here

1. It tells us under expected costs that
'wages $€ 25,000$ per month , payable as incurred'
2. This means that $€ 25,000$ will be entered for each month

| Receipts | January | February | March | April | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Cash Sales | 84,000 | 96,000 | 120,000 | 108,000 | 408,000 |
| Credit Sales 1 |  | 63,000 | 72,000 | 90,000 | 225,000 |
| Credit Sales 2 |  |  | 63,000 | 72,000 | 135,000 |
| 3. Total Receipts | 84,000 | 159,000 | 255,000 | 270,000 | 768,000 |
| Payments |  |  |  |  |  |
| Purchases |  | 144,800 | 93,800 | 94,500 | 333,100 |
| Wages | 25,000 | 25,000 | 25,000 | 25,000 | 100,000 |

## Variable Overheads

## An adjustment is needed here

1. It tells us under expected costs that
'Variable overheads €5 per unit, payable as incurred'
2. Variable overhead are overheads that increase when more units are produced (For example Light and heat - the more you use the more you pay, raw materials the more you use the more you pay).
3. To calculate the variable overheads for this question we take the units that need to be produced for that month (see Part A) and multiple it by the variable overhead per unit (from the question)

Units that need to be produced

|  | January | February | March | April |
| :--- | :--- | :--- | :--- | :--- |
| Required for Production | 12,600 | 9,400 | 9,300 | 10,050 |

January

Units to be produced
Variable OH PU

## February

| Units to be produced | 9,400 | Taken form Part A - Required for Production |
| :--- | :--- | :--- |
| Variable OH PU | $\underline{(x) € 5}$ | Taken from the Question |
|  | $€ 47,000$ |  |

## March

| Units to be produced | 9,300 | Taken form Part A - Required for Production |
| :--- | :--- | :--- |
| Variable OH PU | $\underline{(x) € 5}$ | Taken from the Question |
|  | $€ 46,500$ |  |

## April

| Units to be produced | 10,050 |
| :--- | :--- |
| Variable OH PU | $\underline{(x) € 5}$ |
|  | $€ 50,250$ |

Taken form Part A - Required for Production
Taken from the Question
€47,000

9,300
€ 46,500
€ 50,250

Taken form Part A - Required for Production
Taken from the Question

| Receipts | January | February | March | April | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Cash Sales | 84,000 | 96,000 | 120,000 | 108,000 | 408,000 |
| Credit Sales 1 |  | 63,000 | 72,000 | 90,000 | 225,000 |
| Credit Sales 2 |  |  | 63,000 | 72,000 | 135,000 |
| 4. Total Receipts | 84,000 | 159,000 | 255,000 | 270,000 | 768,000 |
| Payments |  |  |  |  |  |
| Purchases |  | 144,800 | 93,800 | 94,500 | 333,100 |
| Wages | 25,000 | 25,000 | 25,000 | 25,000 | 100,000 |
| Variable Overheads | 63,000 | 47,000 | 46,500 | 50,250 | 206,750 |

## Fixed Overheads

## An adjustment is needed here

1. It tells us under expected costs that
'Fixed overheads (including depreciation) €30,000 per month, payable as incurred.'
2. The fixed cost in the question includes depreciation. As we are doing a cash budget, we only include cash items.
3. This means we need to calculate the depreciation on the equipment and take it out of the fixed costs figure.
4. This new figure for fixed costs will go in the cash budget and the depreciation figure will go in the Profit and Loss Account (Part D)
5. As part of Capital Cost is says
'equipment will be purchased in January costing $£ 45,000$ which will have a useful life of 5 years'

To calculate the depreciation, we do the following

$$
\begin{aligned}
& € 45,000 / 5 \\
& € 9,000 \text { Depreciation per year }
\end{aligned}
$$

We are doing the cash budget per month, so we need to find the monthly deprecation figure
€9,000 / 12
$€ 750 \quad$ Depreciation per year

| Fixed Costs | $€ 30,000$ |  | Taken from the question |
| :--- | :--- | :--- | :--- |
| Depreciation | $\ell 750$ |  | See above working (Depreciation per month) |
|  | $€ 29,250$ |  | Fixed Cost Cash Budget |

NOTE
As the $€ 29,250$ figure is the fixed cost figure it will be the same for each month in the cash budget

The depreciation for the budget trading and profit and loss account would be $€ 750$ * 4 Months $=€ 3,000$

| Receipts | January | February | March | April | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Cash Sales | 84,000 | 96,000 | 120,000 | 108,000 | 408,000 |
| Credit Sales 1 |  | 63,000 | 72,000 | 90,000 | 225,000 |
| Credit Sales 2 |  |  | 63,000 | 72,000 | 135,000 |
| 5. Total Receipts | 84,000 | 159,000 | 255,000 | 270,000 | 768,000 |
| Payments |  |  |  |  |  |
| Purchases |  | 144,800 | 93,800 | 94,500 | 333,100 |
| Wages | 25,000 | 25,000 | 25,000 | 25,000 | 100,000 |
| Variable Overheads | 63,000 | 47,000 | 46,500 | 50,250 | 206,750 |
| Fixed Overheads | 29,250 | 29,250 | 29,250 | 29,250 | 117,000 |

## Equipment

## Use the figure that is given in the question

1. It tells us under capital costs that
'Equipment will be purchased in 1 January costing $€ 45,000$ which will have a useful life of 5 years.'
2. This means that in July you put $€ 45,000$

| Receipts | January | February | March | April | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Cash Sales | 84,000 | 96,000 | 120,000 | 108,000 | 408,000 |
| Credit Sales 1 |  | 63,000 | 72,000 | 90,000 | 225,000 |
| Credit Sales 2 |  |  | 63,000 | 72,000 | 135,000 |
| 6. Total Receipts | 84,000 | 159,000 | 255,000 | 270,000 | 768,000 |
| Payments |  |  |  |  |  |
| Purchases | 25,000 | 25,000 | 25,000 | 25,000 | 100,000 |
| Wages | 63,000 | 47,000 | 46,500 | 50,250 | 206,750 |
| Variable Overheads | 29,250 | 29,250 | 29,250 | 29,250 | 117,000 |
| Fixed Costs | 45,000 |  | 93,800 | 94,500 | 333,100 |
| Equipment |  |  |  | 45,000 |  |

## Loan Repayments

## An adjustment is needed here

1. It tells us under capital costs that
'To finance this purchase, a loan of $€ 30,000$ will be secured at $10 \%$ per annum' and
'Interest to be paid monthly, but capital loan repayments will not commence until July 2014.

NOTE -
As the loan repayment doesn't start until July we will not include it in this budget as we are only doing the budget from January to April

## Loan Interest

## An adjustment is needed here

1. It tells us under capital costs that
'To finance this purchase, a loan of $€ 30,000$ will be secured at $10 \%$ per annum' and
'Interest to be paid monthly, but capital loan repayments will not commence until July 2014.'

NOTE -
It is important to not that this question says
'Interest to be paid monthly'
And not
'based on the amount of the loan outstanding at that date'
This is very important because we don't have to reduce the loan each month by the repayment amount, we just multiply the loan amount (principal) by the rate.

## All Months

NOTE - The interest will start in January as per the Question

| Principal * Rate | Remember the budget is per month, so |
| :--- | :--- |
| $€ 30,000 * 10 \%$ Taken form the Question | $€ 3,000 / 12$ |
| $€ 3,000$ | Yearly amount |
| $\ell 250 \quad$ Monthly amoun |  |


| Receipts | January | February | March | April | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Cash Sales | 84,000 | 96,000 | 120,000 | 108,000 | 408,000 |
| Credit Sales 1 |  | 63,000 | 72,000 | 90,000 | 225,000 |
| Credit Sales 2 |  |  | 63,000 | 72,000 | 135,000 |
| 1. Total Receipts | 84,000 | 159,000 | 255,000 | 270,000 | 768,000 |
| Payments |  |  |  |  |  |
| Purchases | 25,000 | 25,000 | 25,000 | 25,000 | 100,000 |
| Wages | 63,000 | 47,000 | 46,500 | 50,250 | 206,750 |
| Variable Overheads | 29,250 | 29,250 | 29,250 | 29,250 | 117,000 |
| Fixed Costs | 45,000 |  |  |  | 45,000 |
| Equipment | 250 | 250 | 250 | 250 | 1,000 |
| Loan interest |  |  |  |  |  |

Total Payments

## An adjustment is needed here

1. To calculate the Total Payment, we add up the figures in the payment section for each column for each month
2. This will include - purchases + wages + variable $\mathrm{OH}+$ fixed $\mathrm{OH}+$ equipment + interest

| Receipts | January | February | March | April | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Cash Sales | 84,000 | 96,000 | 120,000 | 108,000 | 408,000 |
| Credit Sales 1 |  | 63,000 | 72,000 | 90,000 | 225,000 |
| Credit Sales 2 |  |  | 63,000 | 72,000 | 135,000 |
| 1. Total Receipts | 84,000 | 159,000 | 255,000 | 270,000 | 768,000 |
| Payments |  |  |  |  |  |
| Purchases | 25,000 | 25,000 | 25,000 | 25,000 | 100,000 |
| Wages | 63,000 | 47,000 | 46,500 | 50,250 | 206,750 |
| Variable Overheads | 29,250 | 29,250 | 29,250 | 29,250 | 117,000 |
| Fixed Costs | 45,000 |  |  |  | 45,000 |
| Equipment | 250 | 250 | 250 | 250 | 1,000 |
| Loan interest | 162,500 | 246,300 | 194,800 | 199,250 | 802,850 |
| 2. Total Payments |  |  |  | 333,100 |  |

## Net Cash

An adjustment is needed here

1. To calculate the Net Cash, we take the Total Receipts (1) and take away the Total Payments (2)

| Receipts | January | February | March | April | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Cash Sales | 84,000 | 96,000 | 120,000 | 108,000 | 408,000 |
| Credit Sales 1 |  | 63,000 | 72,000 | 90,000 | 225,000 |
| Credit Sales 2 |  |  | 63,000 | 72,000 | 135,000 |
| 3. Total Receipts | 84,000 | 159,000 | 255,000 | 270,000 | 768,000 |
| Payments |  |  |  |  |  |
| Purchases |  | 144,800 | 93,800 | 94,500 | 333,100 |
| Wages | 25,000 | 25,000 | 25,000 | 25,000 | 100,000 |
| Variable Overheads | 63,000 | 47,000 | 46,500 | 50,250 | 206,750 |
| Fixed Costs | 29,250 | 29,250 | 29,250 | 29,250 | 117,000 |
| Equipment | 45,000 |  |  |  | 45,000 |
| Loan interest | 250 | 250 | 250 | 250 | 1,000 |
| 4. Total Payments | 162,500 | 246,300 | 194,800 | 199,250 | 802,850 |
| Net Cash | $(78,500)$ | $(87,300)$ | 60,200 | 70,750 | $(34,850)$ |

## Opening Cash

## An adjustment is needed here

1. Remember the closing cash for one month is the opening cash for the next month

For example January's Closing Cash will be February's Opening Cash, February's Closing Cash will be March's Opening Cash and so forth.
2. There may not be any opening cash for the first month, so we leave it blank or put in Zero (0). If there was any opening cash, it would tell you in the question

NOTE - This part of the question will have to be complete column by column (month by month), this is because you will have to calculate the closing cash for the month, so you have the opening cash for the next month

| Receipts | January | February | March | April | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Cash Sales | 84,000 | 96,000 | 120,000 | 108,000 | 408,000 |
| Credit Sales 1 |  | 63,000 | 72,000 | 90,000 | 225,000 |
| Credit Sales 2 |  |  | 63,000 | 72,000 | 135,000 |
| 5. Total Receipts | 84,000 | 159,000 | 255,000 | 270,000 | 768,000 |
| Payments |  |  |  |  |  |
| Purchases |  | 144,800 | 93,800 | 94,500 | 333,100 |
| Wages | 25,000 | 25,000 | 25,000 | 25,000 | 100,000 |
| Variable Overheads | 63,000 | 47,000 | 46,500 | 50,250 | 206,750 |
| Fixed Costs | 29,250 | 29,250 | 29,250 | 29,250 | 117,000 |
| Equipment | 45,000 |  |  |  | 45,000 |
| Loan interest | 250 | 250 | 250 | 250 | 1,000 |
| 6. Total Payments | 162,500 | 246,300 | 194,800 | 199,250 | 802,850 |
| Net Cash | $(78,500)$ | $(87,300)$ | 60,200 | 70,750 | $(34,850)$ |
| Opening Cash |  | $(+) 48,500$ | $(+)(135,800)$ | $(75,600)$ |  |
| Bank Loan | $(+) 30,000$ |  |  |  | $(+) 30,000$ |
| Closing Cash | 48,500 | $(135,800)$ | $(75,600)$ | $(4,850)$ | $(4,850)$ |

## Bank Loan

Use the figure that is given in the question

1. It tells us under capital costs that
'To finance this purchase, a loan of $€ 30,000$ will be secured at $10 \%$ per annum.'
2. The loan figure will be taken from the question and will be the loan figure that was used to purchase the equipment $(€ 30,000)$

| Cash budget for Murray Ltd for the four months January to April 2014. |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Receipts | January | February | March | April | Total |
| Cash Sales | 84,000 | 96,000 | 120,000 | 108,000 | 408,000 |
| Credit Sales 1 |  | 63,000 | 72,000 | 90,000 | 225,000 |
| Credit Sales 2 |  |  | 63,000 | 72,000 | 135,000 |
| 7. Total Receipts | 84,000 | 159,000 | 255,000 | 270,000 | 768,000 |
| Payments |  |  |  |  |  |
| Purchases |  | 144,800 | 93,800 | 94,500 | 333,100 |
| Wages | 25,000 | 25,000 | 25,000 | 25,000 | 100,000 |
| Variable Overheads | 63,000 | 47,000 | 46,500 | 50,250 | 206,750 |
| Fixed Costs | 29,250 | 29,250 | 29,250 | 29,250 | 117,000 |
| Equipment | 45,000 |  |  |  | 45,000 |
| Loan interest | 250 | 250 | 250 | 250 | 1,000 |
| 8. Total Payments | 162,500 | 246,300 | 194,800 | 199,250 | 802,850 |
| Net Cash | $(78,500)$ | $(87,300)$ | 60,200 | 70,750 | $(34,850)$ |
| Opening Cash |  | $(+) 48,500$ | $(+)(135,800)$ | $(75,600)$ |  |
| Bank Loan | $(+) 30,000$ |  |  |  | $(+) 30,000$ |

## Closing Cash

## An adjustment is needed here

1. The closing cash is calculated by adding Net Cash, opening cash and bank loan (if any) together

NOTE - Remember the closing cash for one month is the opening cash for the next month

| Cash budget for Murray Ltd for the four months January to April 2014. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Receipts | January | February | March | April | Total |
| Cash Sales | 84,000 | 96,000 | 120,000 | 108,000 | 408,000 |
| Credit Sales 1 |  | 63,000 | 72,000 | 90,000 | 225,000 |
| Credit Sales 2 |  |  | 63,000 | 72,000 | 135,000 |
| 9. Total Receipts | 84,000 | 159,000 | 255,000 | 270,000 | 768,000 |
| Payments |  |  |  |  |  |
| Purchases |  | 144,800 | 93,800 | 94,500 | 333,100 |
| Wages | 25,000 | 25,000 | 25,000 | 25,000 | 100,000 |
| Variable Overheads | 63,000 | 47,000 | 46,500 | 50,250 | 206,750 |
| Fixed Costs | 29,250 | 29,250 | 29,250 | 29,250 | 117,000 |
| Equipment | 45,000 |  |  |  | 45,000 |
| Loan interest | 250 | 250 | 250 | 250 | 1,000 |
| 10. Total Payments | 162,500 | 246,300 | 194,800 | 199,250 | 802,850 |
| Net Cash | $(78,500)$ | $(87,300)$ | 60,200 | 70,750 | $(34,850)$ |
| Opening Cash |  | (+) 48,500 | (+) $(135,800)$ | $(75,600)$ |  |
| Bank Loan | (+) 30,000 |  |  |  | (+) 30,000 |
| Closing Cash | 48,500 | $(135,800)$ | $(75,600)$ | $(4,850)$ | $(4,850)$ |

NOTE - You don't have to complete the Total Colum but the closing cash for April and the closing cash for the Total Column must be the same - this can be a way to check if the question has been completed correctly - TIMING MAY BE AN ISSUE HERE

NOTE - Remember to include the heading - 4 months raw material purchases budget (in units and €) for Murray Ltd

## PART D

Part $D$ is asking you to prepare a budget trading, profit and loss for four months. This will have the same layout as Question one. The budget will look like the following

| Budgeted Trading and Profit and Loss Account for the 4 months <br> ended   <br> Sales   <br> Less Cost of Sales  0 <br> Opening stock  $(+) 432,200$ <br> Add Purchases  432,200 <br>    <br> Less Closing Stock  $(-) 205,450$ <br> Finished Goods 183,750  <br> Raw Material $(+) 21,700$ $(-) 229,750$ <br> Cost of Goods Sold  100,000 <br> Gross Profit  $(+) 206,750$ <br> Less Expenses  $(+) 117,000$ <br> Wages  $(+) 3,000$ <br> Variable Overheads   <br> Fixed Overheads   <br> Depreciation   <br> Operating Profit  326,750 <br> Less Interest  $(-) 1,000$ <br> Net Profit  362,500 |  |  |
| :--- | :--- | :--- |

## Sales

## A calculation is needed here

1. The figure for sales revenue is taken straight form the question for January, February, March and April and adding them together

| July | $€ 210,000$ | (as per the question) |
| :--- | :--- | :--- |
| August | $€ 240,000$ | (as per the question) |
| September | $€ 300,000$ | (as per the question) |
| October | $\underline{€ 270,000}$ | (as per the question) |
|  | $€ 1,020,000$ |  |


| Sales |  | $1,020,000$ |
| :--- | :--- | :--- | :--- |

## Opening Stock

There is no opening stock given to use in this question so we can leave it blank or put in zero (0)

| Sales |  |  | $1,020,000$ |
| :--- | :--- | :--- | :--- |
| Less Cost of Sales |  |  |  |
| Opening stock |  | 0 |  |

## Purchases

Use the figures from part $B$

1. The Purchases figure is got by taking the total for cost of raw material for each month from part $B$ and adding them together
2. You can have a total when completing part $B$ as well

|  | January | February | March | April |
| :--- | :--- | :--- | :--- | :---: |
| L. Cost of Raw Material | 144,800 | 93,800 | 94,500 | 102,100 |

Taken from part B

| July | $€ 144,800$ | (January Total from part B) |
| :--- | :--- | :--- |
| August | $€ 93,800$ | (February Total from part B) |
| September | $€ 94,500$ | (March Total from part B) |
| October | $\underline{€ 102,100}$ | (April Total from part B) |
|  | $€ 435,200$ |  |

Remember to add the opening stock figure and purchases figure together

| Sales |  |  | $1,020,000$ |
| :--- | :--- | :--- | :--- |
| Less Cost of Sales |  |  |  |
| Opening stock |  | 0 |  |
| Add Purchases |  | $(+) 432,200$ |  |
|  |  | 432,200 |  |

## Closing Stock

## An adjustment is needed here

NOTE - in the question it tells us that closing stock should be valued at

1. $€ 25$ for finished goods (as per part $d$ of the question). The closing stock figure for finished goods will be taken form Part A (see table below)
2. €5 per kg for unfinished goods (as per part (i). The Closing stock for unfinished goods will be taken form Part B (see Table below)

Remember we are doing the Trading Profit and Loss account for 4 months so we will use the October column and not the November column

| Production budget for Murray Ltd for the four months |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | Jan | Feb | Mar | April | May |  |
| Sales | 7,000 | 8,000 | 10,000 | 9,000 | 10,500 |  |
| + Closing stock | $(+) 5,600$ | $(+) 7,000$ | $(+) 6,300$ | $(+) 7,350$ | $(+) 7,700$ |  |
|  | 12,600 | 15,000 | 16,300 | 16,350 | 18,200 |  |
| - Opening Stock | 0 | $(+) 5,600$ | $(+) 7,000$ | $(+) 6,300$ | $(+) 7,350$ |  |
| Required for Production | 12,600 | 9,400 | 9,300 | 10,050 | 10,850 |  |

Taken form Part A

| 4 months raw materials purchases budget (in units and $\boldsymbol{\epsilon}$ ) for Murray Ltd |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | Jan | Feb | Mar | April | May |
| A. Units of Production | 12,600 | 9,400 | 9,300 | 10,050 | 10,850 |
| B. Materials Per Unit | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ | $(x) 5$ |
| C. Required for Production | 63,000 | 47,000 | 46,500 | 50,250 | 54,250 |
| D. + Closing Stock | $(+) 9,400$ | $(+) 9,300$ | $(+) 10,050$ | $(+) 10,850$ |  |
|  | 72,400 | 56,300 | 56,550 | 61,100 |  |
| E. - Opening Stock | 0 | $(-) 9,400$ | $(-) 9,300$ | $(-) 10,050$ |  |
| L. Required For Purchase | 72,400 | 46,900 | 47,250 | 51,050 |  |
| M. Price Per KG | $€ 2$ | $€ 2$ | $€ 2$ | $€ 2$ |  |
| N. Cost of Raw Material | 144,800 | 93,800 | 94,500 | 102,100 |  |

Taken form Part B

## Working

Finished Goods Closing stock $7,320 * € 25=219,600$
Raw material Closing stock $10,850 * € 2=29,568$

| Sales |  |  | $1,020,000$ |
| :--- | :--- | :--- | :--- |
| Less Cost of Sales |  |  |  |
| Opening stock |  | 0 |  |
| Add Purchases |  | $(+) 432,200$ |  |
|  |  | 432,200 |  |
| Less Closing Stock |  |  |  |
| Finished Goods | 183,750 |  |  |
| Raw Material | $(+) 21,700$ | $(-) 205,450$ |  |

## Cost of Goods Sold

A calculation is needed here

1. To calculate the cost of sales - take the closing stock figure away from the purchases figure (Opening stock + purchases)

| Sales |  |  | $1,020,000$ |
| :--- | :--- | :--- | :--- |
| Less Cost of Sales |  |  |  |
| Opening stock |  | 0 |  |
| Add Purchases |  | $(+) 432,200$ |  |
|  |  | 432,200 |  |
| Less Closing Stock |  |  |  |
| Finished Goods | 183,750 |  |  |
| Raw Material | $(+) 21,700$ | $(-) 205,450$ |  |
| Cost of Goods Sold |  |  | $(-) 229,750$ |

## Gross Profit

A calculation is needed here

1. Gross profit is calculated by taking the figure of cost of sales away from the sales figure $€ 1,020,000-€ 229,750=€ 790,250$

| Sales |  |  | $1,020,000$ |
| :--- | :--- | :--- | :--- |
| Less Cost of Sales |  |  |  |
| Opening stock |  | 0 |  |
| Add Purchases |  | 432,200 |  |
|  |  |  |  |
| Less Closing Stock |  |  |  |
| Finished Goods | 183,750 | $(+) 21,700$ | $(-) 205,450$ |
| Raw Material |  |  | $(-) 229,750$ |
| Cost of Goods Sold |  |  | 790,250 |
| Gross Profit |  |  |  |

## Expenses

## A calculation is needed here

For the Expenses we work down through the payment's items from the cash budget

1. Purchases This item will go in the trading section of the profit and loss account
2. Wages add up all the figures for each month to get the total figure

$$
(€ 25,000+€ 25,000+€ 25,000+€ 25,500=€ 100,000)
$$

3. Variable Overheads add up all the figures for each month to get the total $(€ 63,000+€ 47,000+€ 46,500+€ 50,250=€ 206,750)$
4. Fixed Costs
add up all the figures for each month to get the total figure. $(€ 29,250+€ 29,250+€ 29,250+€ 29,250=€ 117,000)$
5. Depreciation

Also include the depreciation for equipment
(€750 * 4 months = €3,000)

Remember to add up all the expense figure to get a total

| Sales |  |  | $1,020,000$ |
| :--- | :--- | :--- | :--- |
| Less Cost of Sales |  | 0 |  |
| Opening stock |  | $(+) 432,200$ |  |
| Add Purchases |  | 432,200 |  |
|  | 183,750 | $(+) 21,700$ | $(-) 205,450$ |
| Less Closing Stock |  |  |  |
| Finished Goods |  |  |  |
| Raw Material |  | 100,000 | 790,250 |
| Cost of Goods Sold |  | $(+) 206,750$ |  |
| Gross Profit |  | $(+) 117,000$ |  |
| Less Expenses |  | $(+) 3,000$ | $(-) 426,750$ |
| Wages |  |  |  |
| Variable Overheads |  |  |  |
| Fixed Overheads |  |  |  |
| Depreciation |  |  |  |

## Operating Profit

A calculation is needed here

1. Using the Gross Profit figure, we take away the total expense figure away from it to get the operating profit figure - $€ 790,250-€ 426,750=€ 363,500$

| Sales |  |  | $1,020,000$ |
| :--- | :--- | :--- | :--- |
| Less Cost of Sales |  |  |  |
| Opening stock |  | 0 |  |
| Add Purchases |  | 432,200 |  |
|  |  |  |  |
| Less Closing Stock |  | $(-) 205,450$ |  |
| Finished Goods | 183,750 | $(+) 21,700$ |  |
| Raw Material |  | 100,000 | 790,250 |
| Cost of Goods Sold |  | $(+) 206,750$ |  |
| Gross Profit |  | $(+) 117,000$ |  |
| Less Expenses |  | $(+) 3,000$ | $(-) 426,750$ |
| Wages |  | 363,500 |  |
| Variable Overheads |  |  |  |
| Fixed Overheads |  |  |  |
| Depreciation |  |  |  |
| Operating Profit |  |  |  |

## Less Interest

A calculation is needed here

1. The interest figures are already calculated in Part $C$ as part of the cash budget. Add up all the figures for each month to get the total.

| Receipts | July | August | September | October | Total |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Loan interest |  | 250 | 250 | 250 | 250 |

Taken from Part C working - Interest

| Sales |  |  | $1,020,000$ |
| :--- | :--- | :--- | :--- |
| Less Cost of Sales |  |  |  |
| Opening stock |  | 0 |  |
| Add Purchases |  | $(+) 432,200$ |  |
|  |  | 432,200 |  |
| Less Closing Stock |  |  |  |
| Finished Goods | 183,750 |  | $(-) 229,750$ |
| Raw Material | $(+) 21,700$ | $(-) 205,450$ | 790,250 |
| Cost of Goods Sold |  |  |  |
| Gross Profit |  |  |  |
| Less Expenses |  | 100,000 |  |
| Wages |  | $(+) 206,750$ |  |
| Variable Overheads |  | $(+) 3,000$ | $(-) 426,750$ |
| Fixed Overheads |  |  | 363,500 |
| Depreciation |  |  | $(-) 1,000$ |
| Operating Profit |  |  |  |
| Less Interest |  |  |  |

## Net Profit

A calculation is needed here

1. The Net profit figure is calculated by using the Operating profit figure and taking away the interest paid ( $€ 363,500-€ 1,000=€ 362,500$ )

NOTE - Remember to include the heading - Budgeted Trading and Profit and Loss Account for the 4 months ended 31/10/2014

| Budgeted Trading and Profit and Loss Account for the 4 months ended 31/10/2014 |  |  |  |
| :---: | :---: | :---: | :---: |
| Sales |  |  | 1,020,000 |
| Less Cost of Sales |  |  |  |
| Opening stock |  | 0 |  |
| Add Purchases |  | (+) 432,200 |  |
|  |  | 432,200 |  |
| Less Closing Stock |  |  |  |
| Finished Goods | 183,750 |  |  |
| Raw Material | (+) 21,700 | (-) 205,450 |  |
| Cost of Goods Sold |  |  | (-) 229,750 |
| Gross Profit |  |  | 790,250 |
| Less Expenses |  |  |  |
| Wages |  | 100,000 |  |
| Variable Overheads |  | (+) 206,750 |  |
| Fixed Overheads |  | (+) 117,000 |  |
| Depreciation |  | (+) 3,000 | (-) 426,750 |
| Operating Profit |  |  | 363,500 |
| Less Interest |  |  | (-) 1,000 |
| Net Profit |  |  | 362,500 |

## PART E

This is the theory part of the question and includes the following
(i) What useful information is available to Houghton Ltd from the cash budget?

1. It can identify periods of when the company is in a deficit - In July and August, the company has a maximum cash deficit of $€ 110,920$.
2. It can identify when the company will have a surplus - This shortfall is eliminated in September and October with a cash surplus at the end of October of $€ 345,078$.
3. It can identify if the company will need to get a loan or arrange a bank overdraft - The company needs to arrange a bank overdraft of $€ 110,920$ or else take corrective action by leasing the equipment, or extending the period of credit received from one month to two months.
4. The company could also try and get customers to buy more goods for cash rather than credit.
5. This could be used to purchase new fixed assets increasing the productive capacity of the firm or purchase investments which increase investment income and profit.

## (ii) Explain what is meant by a master budget.

Master Budget is a planning tool that gives an overview of a business's finances, outlining cash flow forecasts, financial statements, and the financial plan.

It is a financial planning document that includes all budgets, cash flow forecasts, budgeted financial statements, and financial plans of an organisation. It usually has different elements, including the budgets for sales, production, administration, direct materials, and overhead.

The master budget allows the company to forecast what will need to be done to meet their goals.

## Example of a Master budget

Often, a company's other budgets will roll up into the master budget. For instance, a company may incorporate its sales budget, the cost of goods sold, selling and administrative expenses, cash budget, capital expenditures, inventory, total assets, to construct a master budget that gives a in-depth picture of its financials.

