## Module 2

## Finance: Deal with finances in personal and/or familiar contexts as well as in the workplace

After completing this module, students will be able to:

- Manage finances with confidence
- Read, interpret and act on financial information presented in documents

Lecture slide \#4-9

## Introduction

Finance is important to two groups:

- Individuals so that they can properly plan their lives
- Enterprises who need to plan their activities.

The principles of financial management are the same for both groups i.e. we need to record all our income and expenses, and from those we need to prepare an income statement, to tell us how much money we've made (or lost) during the year, a balance sheet, which tells us our current financial position, and a budget which helps us to plan for the future.

## 1. Manage finances and financial information with confidence

The two subject outcomes overlap extensively and the module is therefore approached under headings which encompass both outcomes.

## At the end of this outcome, students will be able to:

- Identify, record and manage sources of income.
- List and manage expenses.
- Plan and monitor finances.
- Read and identify appropriate information from selected documents.
- Select and interpret information from documents and complete the documents.
- Make and explain decisions using documents.


### 1.1 Income and expenditure

- Explain what income is and what expenditure is
- Explain the difference between gross income and net income providing examples.


### 1.2 Fixed and variable expenses/costs and income

- Explain the difference between fixed costs and variable costs, providing examples of each.


## Bank statements

- Explain what a bank statement is, and why it is necessary for accounting purposes.
- Explain what a debit transaction is and what a credit transaction is.


## Activity 1

1. Identify items (tick the correct column) of expenditure and revenue (income) from the following list:

| Item | Expenditure | Revenue |
| :--- | :--- | :--- |
| Interest earned on investment |  | $x$ |
| Monthly rental paid for premises of the firm | $x$ |  |
| Tax payable to Receiver of Revenue | $x$ |  |
| Payment for services rendered | $x$ |  |
| Cost of three delivery vans for the running of the business | $x$ |  |
| Cost of goods sold | $x$ |  |
| Wages and salaries to employees | $x$ | $x$ |
| Water and electricity usage | $x$ |  |
| Interest paid on bank overdraft |  |  |
| Cheque payment | $x$ |  |
| Government sponsorship |  |  |

2. Distinguish between fixed and variable income/cost items (tick the correct column):

| Item of income/cost | Fixed income/cost | Variable income/cost |
| :--- | :--- | :--- |
| Commission |  | $x$ |
| Monthly payment for truck rental | $x$ |  |
| Cost to repair broken equipment |  | $x$ |
| Municipal water and electricity account |  | $x$ |
| Rental of business premises used | $x$ |  |
| Monthly payment for equipment rental | $x$ | $x$ |
| Interest earned on money invested |  | $x$ |
| Salaries of long-term workers | $x$ | $x$ |
| Wages of intermittent workers |  | $x$ |
| Cost of material to produce items sold |  |  |
| Cost of delivery of items sold |  |  |

3. Identify which words on a bank statement mean income (credit) and which mean expenses (debit):

| Word | Credit | Debit | Word | Credit | Debit | Word | Credit | Debit |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Deposit | $x$ |  | Card levy |  | $x$ | Opening balance | $x$ |  |
| Overdraft interest |  | $x$ | Administration fee |  | $x$ | Cheque payment |  | $x$ |
| Interest | $x$ |  | Internet banking cost |  | $x$ | Cheque payment <br> reversal | $x$ |  |
| Transfer cost |  | $x$ | Cheque deposit | $x$ |  |  |  |  |

### 1.3 Bank accounts and bank charges Bank account

Explain the difference between various types of bank accounts including current accounts, savings accounts and fixed deposit interest accounts.
Discuss how the reserve bank determines interest rates.

## Activity 2 - Bank charges

This is an individual activity that students can complete in class or as homework.

1. With the table of transaction costs, calculate the tariffs for the following transactions:
a. How much will it cost to withdraw R800 at a Saswitch ATM?

Cost to withdraw R800 at a Saswitch $A T M=5,50+2,80+7,20=15,50$
b. How much will it cost to withdraw R800 at the ATM of your bank?

Cost to withdraw R800 at the ATM of your bank $=15,50-5,50=10,00$
c. How much will it cost to withdraw R10 over the counter inside the bank?
Cost to withdraw R10 over the counter inside the bank $=R 25$

| Transaction on <br> savings account | Fee at ATM <br> of bank | Fee at Saswitch ATM | Fee over the <br> counter inside bank |
| :--- | :--- | :--- | :--- |
| Withdrawal | $\mathrm{R} 2,80+\mathrm{R} 0,90$ <br> per R100,00 | $\mathrm{R} 5,50+\mathrm{R} 2,80+\mathrm{R} 0,90$ <br> per R100,00 | $\mathrm{R} 25,00$ |
| Balance enquiry | Free | $\mathrm{R} 3,15$ | $\mathrm{R} 2,35$ |

2. Bank statement on a current account of Ashley Abrahams at Wonder Bank.
a. Identify items of income and expenditure.

Income $=$ the internet transfer of 15 000; Expenditure to $=$ TH Motors; Auto electric costs; Christelle's account; Bank account; Multichoice rental; and two cash withdrawals
b. Complete the balance column.
c. Calculate the bank fees from $4^{\text {th }}$ July to $25^{\text {th }}$ July.

Total bank fees from 4th July to 25th July $=97,26$

| Date | Cheque no. | Description | Bank fees | Debits | Credits | Balance |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $04 / 07 / 06$ | Brought forward |  |  |  |  | 2000,00 |
| $06 / 07 / 06$ | 1124 | T.H. Motors | 24,14 | 1100,00 |  |  |
| $06 / 07 / 06$ | 1125 | Auto Elec. | 25,99 | 1300,00 |  | $400,00-$ |
| $08 / 07 / 06$ | Internet |  |  |  | 15000,00 | 14600,00 |
| $08 / 07 / 06$ | Sasw Cash |  | 13,30 | 500,00 |  | 14100,00 |
| $08 / 07 / 06$ | Internet | Christelle's | 2,82 | 200,00 |  | 13900,00 |
| $10 / 07 / 06$ | Sasw Cash |  | 13,30 | 500,00 |  | 13400,00 |
| $10 / 07 / 06$ | Internet | Bank C account | 10,22 | 1000,00 |  | 12400,00 |
| $12 / 07 / 06$ | 1126 | M Choice | 7,49 | 220,00 |  | 12180,00 |
| $25 / 07 / 06$ |  |  |  |  |  |  |

3. Table of possible bank costs/charges

| Transaction | Bank A | Bank B | Bank C | Bank D | Bank E |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Minimum balance | R10,00 | R50,00 | R50,00 | R50,00 | R50,00 |
| Interest rates on <br> credit balances | $10 \%$ p.a. up to R25 000; <br> $7 \%$ p.a. from R25 000 <br> to R100 000 | $0,25 \%$ p.a. over <br> R1 000 | $0,25 \%$ p.a. <br> over R1 000 | No interest on <br> savings account | 2\% p.a. over <br> R250 |
| Cash withdrawal at teller | R1,80 | R16,00 + R0,90 <br> per R100 up to <br> a max cost of <br> R50 | R16,00 + <br> $0,95 \%$ of the <br> value | R8,00 for first R100 <br> + R0,89 for every <br> additional R100 or <br> part thereof | R16,25 <br> $0,9 \%$ of the <br> value |
| Cash withdrawal at own <br> ATM - withdraw R500 | R1,80 | R6,40 | R7,05 | R6,40 | R4,70 |
| Monthly administration <br> fee | R2,00 | R5,65 | R5,00 | R6,00 | R6,25 - |

a. Which bank offers the best interest rate p.a.?

Bank A offers the best interest rate p.a.
b. At which bank is it the easiest to open an account?

Bank A.
c. You want to withdraw R400 cash at the ATM of a bank that holds your account. Calculate the cost at each of the five banks.
If you want to withdraw R400 cash at the ATM of a bank which holds your account, it would cost you: Bank A: R1,80; Bank B: R6,40; Bank C: R7,05; Bank D: R6,40; Bank E: R4,70
d. Do the same calculation as in c. if the ATM is non-functional when you arrive at the bank, and you have to go inside the bank to withdraw at the teller.
If the ATM is non-functional when you arrive at the bank, and you have to go inside the bank to withdraw at the teller: Bank A: R1,80; Bank B: R19,60; Bank C: R19,80; Bank D: R10,67; Bank E: R19,85
e. Which bank would you advise a friend to go to? Explain your answer. My friend should go to Bank A as it has a higher interest rate, a lower entry fee and lower bank costs.


Lecture slide \#18-24

## Case study 1

Since there are calculations that students might battle with, it is recommended that students work in groups for this case study.

Remember Noluthando's Little Laundry from Module 1?
Study her financial situation as laid out in the bank statement below and then answer the questions that follow.

## WONDER BANK Limited 23 Factory Road BIESIESFONTEIN 5066

Bank statement from: $17 / 05 / 09$
to: $31 / 07 / 09$

## Savings Account:

Ms Noluthando Mkize
Apartment 67
Biesieshof
BIESIESFONTEIN 5061

| Date | Branch | Transaction description | Funds In | Funds out (-) | Balance (R) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Brought forward 31 587,23 |
| 17/05 / 09 | Biesiesfontein, Factory Road | Cash dep | 100,00 |  | 31687,23 |
| 19/05 / 09 | Biesiesfontein, Factory Road | Cheque dep | 2000,00 |  | 33687,23 |
| 19/05 / 09 | Biesiesfontein, Factory Road | Electronic dep P.S. Thembu, | 5000,00 |  | 38 687,23 |
| $31 / 05 / 09$ | Head Office | CR Interest | 111,44 |  | 38798,67 |
| $31 / 05 / 09$ | Head Office | Monthly fee |  | 2,00 | 38796,67 |
| 04/06 / 09 | Biesiesfontein, Factory Road | Direct Dep. Table Way Furnishers |  | 5025,74 | 33770,93 |
| 04/06 / 09 | ATM Factory Road | Cash withdrawal |  | 500,00 | 33270,93 |
| 05 / $06 / 09$ | Biesiesfontein, Factory Road | Direct Dep. Hard-Core Bakkies |  | 10000,00 | 23 270,93 |
| 07 / $06 / 09$ | Biesiesfontein, Factory Road | Direct Dep. R\&D Driving School |  | 720,00 | 22 550,93 |
| 25 / $06 / 09$ | Biesiesfontein, Factory Road | Direct Dep. Biesiesfontein Municipality |  | 618,27 | 21932,66 |
| 25 / 06/09 | Biesiesfontein, Factory Road | PNP P\&C fee |  | 380,64 | 21552,02 |
| 25 / 06/09 | Biesiesfontein, Factory Road | PNP purch CB fee |  | 2,00 | 21550,02 |
| 25 / $06 / 09$ | Biesiesfontein, Factory Road | Direct Dep. Biesiesfontein Municipality |  | 436,75 | 21113,27 |
| $30 / 06 / 09$ | Head Office | CR Interest |  |  | 21235,00 |
| $30 / 06 / 09$ | Head Office | Monthly fee |  | 2,00 | 21233,00 |
| 10 / $07 / 09$ | Pick 'n Pay | PNP P\&C fee |  | 392,40 | 20 840,60 |
| 10/07/09 | Pick 'n Pay | PNP purch CB fee |  | 2,00 | 20838,60 |
| 19 / 07 / 09 | Head Office | Electronic dep | 5000,00 |  | 25 838,60 |
| $25 / 07 / 09$ | Biesiesfontein, Factory Road | Cheque dep | 535,00 |  | 26373,60 |
| 26 / 07 / 09 | ATM Factory Road | Cash withdrawal |  | 500,00 | 25 873,60 |
| $31 / 07 / 06$ | Head Office | CR Interest |  |  | 25 887,04 |
| $31 / 07 / 06$ | Head Office | Monthly fee |  | 2,00 | 25 885,04 |

She has a savings account which gives her 7\% interest p.a.
a. Help her with her bank statement. For the bank statement, list the debit items (funds out) and the credit items (funds in). Complete the balance column.
All income items are listed under "Funds in" and all Debit items under
"Funds out"
b. Explain what "CR interest" means. Show how to calculate the R111,44. $C R$ interest means "credit interest".
c. Calculate the other interest amounts i.e. on 30/06/09 and on 31/07/09. $7 \%$ interest p.a. $=0,019178 \%$ interest per day ( 7 divided by 365) Interest in the bank is calculated on a daily basis on the new bank balance. To facilitate the calculation (and merely as an exercise in compound interest calculation - therefore not accurate amount which would result in a very lengthy calculation), just take the latest bank balance:
Final amount $=38687,23(1+0,019178 \%)^{15}($ The 15 is for the fifteen days up to $31 / 05 / 09)=38799,04$
Therefore, the interest $=38799,04-38687,23=111,81($ A scientific
calculator gives $R 111,44$ )
$C R$ interest on $30 / 06 / 08=121,73$
$F A=21113,27(1+0,00019178)^{30}=21235,00$
$C R$ interest on $31 / 07 / 08=F A=25873,60(1+0,00019178)^{31}=26027,87$
Interest amount $=26027,87-25873,60=154,27(154,16$ with simple calculator).
d. On which of the listed expenses did she spend some of her cash withdrawals?
On soap powder to do the washing.
e. Has she paid her utilities account for July yet? If not, until what date does she have time to pay it?
No, she has not. She has until the 7th of the month. If the 7th falls on a week-end she has until the Monday

## Assignment 1 - Bank charges/costs

This is a research activity which students will have to complete in their own time.

Compare the costs of the following transactions at two local banks:
a. Internet transfer of R25 000.
b. Withdrawal over the counter of R30 750 to pay wages of employees.
c. Stop-order on a monthly payment of R6 500.
d. ATM cash withdrawal of R1 000 at a SASWITCH terminal.
e. Monthly administration fee.
f. Cheque made out for R27 000.

### 1.4 Records ... are kept in the form of different source documents

Lecture slide \#26

## Source documents

Explain to students the three different categories of sales documents namely:

- Sales documents.
- Purchase documents.
- Banking documents.


## Sales documents

- Invoice
- Debit note
- Credit note
- Receipt
- Till roll


## Purchase documents

- Petty cash shkuos
- Purchase order
- Dispatch note and invoice
- Credit and debit notes
- Cheque and cheque stubs


## Banking documents

- Bank statements
- Cheque payments
- Crossed cheques
- Blank cheques


Lecture slide \#27-28

## Activity 3 - Your payslip and bank deposit slip

This is an activity for students to complete by themselves, they will need time to get hold of a deposit slip.
T. Jantjies of T.J. Motors has employed a mechanic. His monthly pay-slips look like this.


1. What is Ashley's birth date?

90th June 1974 (read from the first 6 digits of his ID number)
2. Does he receive a $13^{\text {th }}$ cheque?

No, because $5020,83 \times 12=60249,9660250$
3. What $\%$ tax does he pay?
$18 \%$ tax, Calculated $903,75 \quad 5020,83 \times 100=18 \%$
4. What $\%$ UIF does he pay?

1\% UIF
5. Get a bank deposit slip from your bank and fill it in for A. Abrahams depositing his salary into his savings account with account number 82282826665 which is held at the Hatfield branch in Tshwane.


Lecture slide \#29

## Case study 2

Students should work in groups of two for this activity. It can be completed for class or for homework.

The questions concern the car repair business of Mr.T. Jantjies of the address: T.J. Motors 26 Industrial Road VANGUARD 2357

You might be a secretary, office worker, the wife of the owner, the owner himself or one of the mechanics working for Mr T. Jantjies.
When the work has been completed on a car, you must write out an invoice which is given to the customer.
The invoice is a document which informs the client what he has to pay and why, i.e. for what.
Invoices are made out in duplicate, and one copy is given to the client/customer.
When the customer has made the payment you can give him a receipt, i.e. documentary proof that an amount has been received by the business. These receipts are pre-printed and have to be numbered or might be prenumbered as well. Receipts are completed in duplicate. The original is given to the customer as proof of payment whilst the copy remains in the receipt book.
The money then has to be deposited into the bank account of the business. A bank deposit slip has to be filled in.

## Activity 4 - Invoices, receipts, statements, cheques

This is an individual activity which students can complete in class or for homework

1. The following work has been done on a Ford Sapphire with registration number CW 21439 for a Ashley Abrahams on $2^{\text {nd }}$ October 2008:
Differential and side shafts replaced; tow bar removed before and replaced after work on differential completed; check for any other related problems; road test done.
The labour was calculated as R650,00.
The cost of new or second-hand replacement parts: differential R1 280,00; side shafts (left and right complete) R2 300,00; differential oil R120,00;
shock absorber supplies R8,85; bolts and nuts R4,95; extra oil R12,00.
It is invoice no. 235 of this business.
Instruction: Complete the invoice and calculate the VAT at 14\%.

FROM: T.J. Motors 26 Industrial Road VANGUARD 2357

TO : Mr. Ashley Abrahams
-
DATE: 2nd October 2008 Car Make: Ford Sapphire Car Registration: CW 21439

| Labour (A) | Materials (B) |  | R | c |
| :---: | :---: | :---: | :---: | :---: |
| Remove and replace tow bar | Differential parts |  | 1280 | 00 |
| Remove and replace side shafts | Side shafts |  | 2300 | 00 |
| Work on differential | Oil |  | 120 | 00 |
| Check for other problems | Shocks supplies |  | 8 | 85 |
| Road test | Bolts and nuts |  | 4 | 95 |
|  | Oil |  | 12 | 00 |
| R650 |  |  |  |  |
|  |  | Total: | 3725 | 80 |
| Labour: |  | Total | 650 |  |
|  |  |  | 4375 | 80 |
|  |  | SUB | 612 | 61 |
| VAT: <br> GROSS AMOUNT: |  |  | 4988 | 41 |

2. The customer pays R1 000,00 by cheque when collecting the car. He requests to pay the outstanding amount in payments of R1 000 per month. The number of this receipt for the business is 428 .
Complete the receipt below for the customer for the first payment.

## RECEIPT

DATE: 2nd October $20 \underline{08}$ NO. 428
Received with thanks from Mr Ashley Abrahams
the sum of:

|  | Rand |  |
| :--- | :--- | :---: |
| One thousand |  |  |
| Cheque | $c$ |  |
|  | 1000 | 00 |

For: T.J. Motors
Signed:
3. At the end of the month you have to send Mr. Peter Smith a statement of account mentioning the balance, the amount currently payable and the time limit for the payment within the next 30 days. Fill in this statement of account below.

## STATEMENT

To: Mr. A. Abrahams
DATE: 3 October 2008
-

|  | Ageing | Current | 30 | 60 | 90 |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | $\mathbf{2 7 2 5 . 0 0}$ | $\mathbf{1 0 0 0 . 0 0}$ |  |  |

4. You have to deposit the money received during the week in the bank. Apart from the payment received in question 1, the business has also received:
a. 3 October 2008 - cash payment of R450,00 for the replacement of a battery, received from Mr. L. Botha.
b. 4 October 2008 - Wonder Bank ( $254 / 21$ branch cd.) cheque payment of R685,00 for replacement of a faulty carburetor, received from Mr. P. Venter;
c. 4 October 2008 - cash payment of R250,00 for repair of an alternator, received from Mr. V. Wilson;
d. 5 October 2008 - Best Bank ( $326 / 89$ branch cd.) cheque payment of R3 000,00 for replacement of top gasket of a Jetta, received from Mr. T. Sihlalo.

## BEST BANK Deposit slip

Date (ddmmyyyy): 5 Oct 2008
Branch: Shangolo
Credit: (name in block letters) T.J. Motors
Depositor's signature:
Account no to credit: $\qquad$

|  | Rand | cents |
| :--- | :--- | :--- |
| Cash | 700 | 00 |
| Cheques:( name of drawer/branch code/bank) | 3685 | 00 |
|  | 4385 | 00 |

5. The business has to pay its monthly rental of R2 500,00 to Precise Properties at the beginning of each month. Make out the cheque for this payment on the $3^{\text {rd }}$ October 2008.

## BEST BANK

Ltd Reg no. 1961/0004/06
SHONGOLO Main Road

101-923

Date: 3 October 2008

Pay Precise Properties or bearer

Amount Two thousand five hundred rand only

| $R$ | $c$ |
| :--- | :---: |
| 2500 | 00 |

T.J. Motors

T Jantjies
6. Also fill in the cheque stub for the cheque in number 4 . Start with a balance of R10 000.

Date: 3/10/08

To: Precise Properties

For: Monthly Rental

| Balance brought forward | 10000 |
| :--- | :--- |
| Deposits | 1450 |
| Total | 11450 |
| This cheque | 2500 |
| Sub-total | 8950 |
| Withdrawals |  |
| Balance carried forward | 8950 |

0065
7. Make a record of all receipts and payments of the one week for T.J. Motors in this simplified page of a cash book. Receipts are entered on the left hand side.

| CASH BOOK: |  | CLIENT NAME: $\quad$ T.J. Motors |  |  |  |  | Month ending October 2006 |  |  |  |  | No. 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | CASH RECEIPTS |  |  |  |  | CASH PAYMENTS |  |  |  |  |  |
| Date | Receipt no. | Received from | Description | VAT amount | Receipt analysis | Bank deposit | Date | Paid to | Description | VAT amount | Cheque analysis | Cheque amount |
| 2/10 | 428 | A. Abrahams | Chq Pmt |  |  | 1000 | 4/10 | H\&H Spares | Parts | 490 | 3500 | 3990 |
| 3/10 | 429 | Botha | Csh Pmt |  |  | 450 | 4/10 | Valley Gas | Ptrl | 36.84 | 236.16 | 300.00 |
| 4/10 | 430 | Venter | Chq Pmt |  |  | 685 | 4/10 | ATM | Cash |  |  | 200.00 |
| 4/10 | 431 | Wilson | Csh Pmt |  |  |  |  |  |  |  |  |  |
| 5/10 | 432 | Sihalo | Chq Pmt |  |  | 3000 |  |  |  |  |  |  |

9. The following happens on the $4^{\text {th }}$ October 2008:

You need R200,00 in petty cash for the running of your day-to-day expenses in the office. You withdraw this money in cash from the ATM. You also have to buy parts from H \& H Spares to the value of R3 500,00 for work to be done on the alternator of a car.
You have to buy petrol from Valley Gas Station to the value of R300 for daily collection of parts.
a. Complete the cheques and the cheque stubs for these two payments.
b. Add these payments to the cash payments side of the cash book of the previous question. To fill in the VAT amount and cheque analysis (VAT exclusive amount) you will have to calculate what the VAT amount was for the cost of the alternator. Petrol is exempted from VAT.

## BEST BANK

Ltd Reg no. 1961/0004/06
SHONGOLO Main Road

101-923

Date: 4/10.2008

Pay H\&H Spares or bearer

Amount Three five zero zero rand only

## T.J. Motors

T Jantjies

Date: $\quad 4 / 10.08$

To: H\&H Spares

For: $\qquad$

| Balance brought forward | 8950.00 |
| :--- | :--- |
| Deposits | 935.00 |
| Total | 9885.00 |
| This cheque | 3500 |
| Sub-total | 5895 |
| Withdrawals | 0.00 |
| Balance carried forward | 5895.00 |

0066

Date: 4/10/08

To: . Valley Gas
For: Petrol

| Balance brought forward | 5895 |
| :--- | :--- |
| Deposits | 0.00 |
| Total | 5.895 |
| This cheque | 300 |
| Sub-total | 5595 |
| Withdrawals | 200 |
| Balance carried forward | 5395 |

0067

## BEST BANK

Ltd Reg no. 1961/0004/06
SHONGOLO Main Road

101-923

Date: $\qquad$
Pay Vally Gas $\qquad$ or bearer

Amount Three hundred rand only

## T.J. Motors

| $R$ | $c$ |
| :--- | :---: |
| 300 | 00 |

T Jantjies
9. Complete the bank statement on the cheque account of the business - take the balance brought forward to be R9 000,00:

| Date | Branch | Description | Bank fees | Debits | Credits | Balance |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | Brought <br> forward |  |  |  | 9000,00 |  |
| $2 / 10 / 08$ | Shongololo | Cheque deposit |  |  | 1000 | 10000 |
| $3 / 10 / 08$ | Shongololo | Cash deposit |  | 2500 | 450 | 10450 |
| $3 / 10 / 08$ | Shongololo | Precise Prop |  |  | 685 | 9950 |
| $4 / 10 / 08$ | Shongololo | Cheque deposit |  | 250 | 10635 |  |
| $4 / 10 / 08$ | Shongololo | Cash deposit |  |  | 10885 |  |
| $4 / 10 / 08$ | Shongololo | Cheque H\&H |  | 300 | 6895 |  |
| $4 / 10 / 08$ | Shongololo | Cheque Valley Gas |  | 200 | 6595 |  |
| $4 / 10 / 08$ | Cape Town | Cash |  |  | 6395 |  |
| $5 / 10 / 08$ | Shongololo | Cheque deposit |  |  | 9395 |  |

10. The following work was done by T.J. Motors on $9^{\text {th }}$ October 2006: The work was done on a 1984 Passat CLI with registration no. CJ 87663 for Mr. L. Dlamini. The starter motor was removed, repaired, replaced and tested. Spares bought for this cost R320,81. Battery terminals were repaired. Subsequently it was found that the battery had to be replaced. The cost of a new battery was R406,69. Voltage regulator was replaced at a cost of 148,96 . All the work done was tested. All parts were bought from Auto Parts Ltd. The total amount for labour was R185,00.
a. Write an invoice to the owner of the car for this work.
b. At the month's end write out a statement of account for the balance of the payment. The customer paid R900,00 on the $9^{\text {th }}$ October.
c. List the items of disbursement to third parties (expenses) by Mr. Jantjies during the job.
d. Write out a cheque to Auto Part Ltd. for the items of disbursement (bought spares) for the job done. You still have to add the VAT to the total amount for the parts.

## TAX INVOICE

NO: 236

FROM: T.J. Motors
26 Industrial Road
VANGUARD 2357

VAT registration no.:

Mr. L. Dlamini

DATE: $\quad$ 9/10/08 Car Make: Passat GLX '84 Car Registration: CJ87663

| Labour (A) | Materials (B) |  | R | c |
| :---: | :---: | :---: | :---: | :---: |
| Starter motor repaired and tested | Starter motor spares |  | 320 | 81 |
| Battery terminal replaced | Battery |  | 406 | 69 |
| Battery replaced | Voltage regulator |  | 148 | 96 |
| Voltage regulator replaced |  |  |  |  |
| All work tested. |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  | Total: | 876 | 46 |
|  |  | Total | 185 | 00 |
| Labour: |  | SUB | 1061 | 46 |
|  |  | SUB | 146 | 60 |
| VAT: <br> GROSS AMOUNT: |  |  | 1210 | 06 |

## STATEMENT

To: L. Dlamini

DATE: 31 October 2008

From: T.J. MOTORS 26 Industrial Road VANGUARD 2357

| DATE | DETAILS | DEBIT | CREDIT | BALANCE |
| :--- | :--- | :--- | :--- | :--- |
|  | Account rendered |  |  | 1210.06 |
| $9 / 10 / 06$ | Less receipts |  | 900 |  |
|  |  |  |  | 310.06 |
|  |  |  |  |  |


|  | Ageing | Current | 30 | 60 | 90 |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | $\mathbf{3 1 0 . 0 6}$ |  |  |  |

## BEST BANK

Ltd Reg no. 1961/0004/06
SHONGOLO Main Road

101-923

Date: $\quad 7 / 10 / 08$

Pay Auto Parts Ltd. or bearer

Amount Nine hundred and ninety nine rand and 16/100

| $R$ | $c$ |
| :--- | :---: |
| 999 | 16 |

## T.J. Motors

T Jantjies

Date: 7/10/08
To: Auto Parts Ltd
For: Motor Parts

| Balance brought forward | 5395 |
| :--- | :--- |
| Deposits | 3000 |
| Total | 8395 |
| This cheque | 999.16 |
| Sub-total | 7395.84 |
| Withdrawals | 0.00 |
| Balance carried forward | 7395.84 |

### 1.5 Savings

Lecture slide \#51-54

- Explain to students the benefit of saving vs. borrowing.
- If you know of any stories where people have fallen into a irrecoverable debt trap or people having made it rich through saving, tell them.
- Take students through examples of calculating simple interest and compound interest.


## The formula for simple interest will be:

Simple interest $=\mathrm{P} \times \mathrm{T} \times \underset{100}{\mathrm{r}}$

Where: P : initial amount
T : number of years
r : interest rate

## Compound interest: Final amount: $\mathbf{A}=\mathbf{P}(\mathbf{1}+\mathbf{r} / \mathbf{1 0 0})^{n}$

( $\mathrm{r}=$ interest rate p.a.; $\mathrm{n}=$ number of periods and $\mathrm{P}=$ initial amount.)
This above formula amounts to the same as calculating simple interest step by step. Calculate it for the example just done for two years to check on the answer of R110,25.

Try this just to refresh your memory on the use of these two formulae: A man has R7 500. He loans R2 000 at a rate of 5\% p.a. and R2 500 at a rate of $7 \%$ p.a. (to friends therefore both loans are at simple interest). He invests the remaining money at a rate of $10 \%$ p.a. compounded annually. What will his interest amount to after two years?

## Activity 5 - Compound interest

This is a difficult activity that students almost certainly won't be able to complete on their own. Questions 2 and 3 are beyond the scope of the syllabus, and you may find it easiest to just give students the answers for these questions rather than confuse them with the calculations.

1. Calculate the interest amount on R16 500 in a fixed deposit at $8 \%$ p.a. for five years. Calculate the interest on a monthly basis.
$F A=16500(1+8 / 1200)^{24}=16500(1,1728849)=19352,60$
The interest amount $=19352,60-16500=$ R1852,60
2. Calculate the number of years necessary to have R12 000 increase to

R20 000 at an interest rate of $7 \%$ p.a. calculated on a quarterly basis.
$20000=12000(1+0.07 / 4)^{n}$
$20000 / 12000=(1+0.07 / 4)^{n}$
$\ln (20000 / 12000)=\ln (1+0.07 / 4)^{n}$
$n=\left[(\ln 20000 / 12000) /\left(\ln 1+{ }^{0.07 / 4}\right)\right]$
$n=29.44$ months $=7.36$ years
3. Calculate the interest rate if R7 000 increases to R15 000 in 5 years.

Interest is calculated on an annual basis.
$15000=7000(1+\mathrm{r} / 100)^{5}$
$15000 / 7000=(1+\mathrm{r} / 100)^{5}$
$(1+\mathrm{r} / 100)={ }_{5}(15000 / 7000)$
$r=16,47 \%$
4. Calculate the value of a car that cost R45 000 after 6 years. Depreciation is 6\% p.a.
Final amount $=45000(1-6 / 100)^{6}=31044,13$
5. Calculate the amount that has to be invested to have R25 000 available after 10 years at an interest rate of $6 \%$ p.a. calculated on a monthly basis. $25000=P(1+6 / 200)^{20}$
$P=13841,90$


Lecture slide \#55-57

## Case study 3 - The extraordinary power of compound interest

The answers given here are approximations and will differ depending on what assumptions the student uses to calculate. Students can work on this in class, where they can ask questions. It is doubtful whether they will be able to complete this activity at home without help.

Twin brothers each have R1 000 per year extra in their pockets from the age of 19 .
They can either invest this at $8 \%$ p.a. compound interest, or just spend it. Brother A saves his money each year until he is 29 years old and then decides to rather spend the annual R1 000. However, he does not touch the money already in the bank which continues to grow at a compound interest rate of 8\% p.a.
Brother B does the opposite - he squanders the money for the first 10 years and then decides to start saving. He does this for the next 36 years.
a. Calculate who will have the most money at the age of 65 . Use a monthly compounding of the interest.
Brother A obtains approximately R230 000 while brother B obtains approximately R190 000
b. Plot two curves on the same set of axes to illustrate the growth of their nest eggs. Use time on the horizontal axis and amount of money in the bank on the vertical axis.

### 1.6 Financial statements

Revise the concepts of income statements and balance sheets with students. It may be worthwhile to draw up a sample balance sheet and explain the balance sheet equation (Assets $=$ Equity + Liabilities) and explain what each of these terms mean.
Remember, an income statement gives us an indication as to how well a business has performed over a period; a balance sheet tells us what the business's current financial position is.

## Activity 6 - Budget and calculations of variance and \% variance

Using the income statement of Sam's parents, a budget can be worked out for a projected income of R7550 per month.

Lecture slide
\#64-68

Combined budget for Sam's parents:

| Expense items | Amounts expected as budgeted from an average of 6 months. | Percentage expense with regard to total expense | April Expenses | Variance amount | Variance percentage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Rent | $2050-00$ | 27.13\% | $2050-00$ | 0 | 0 |
| Insurance and funeral policies | 400-00 | 5,29 | 400-00 | 0 | 0 |
| Water \& electricity | 265-00 | 3,51 | 300-00 | - 5 | 1,89\% |
| Telephone | 480-00 | 6,35 | 500-00 | $+80$ | 16,67\% |
| Transport | 300-00 | 3,97 | 350-00 | 0 | 0 |
| School fees | 265-00 | 3,51 | 265-00 | 0 | 0 |
| Clothes | 250-00 | 3,31 | 100-00 | $+150$ | 60\% |
| Medical | 146-00 | 1,93 | 200-00 | - 54 | 36,99\% |
| Food and household | $2850-00$ | 37,72 | 3 500-00 | -350 | 12,28\% |
| Savings | 250-00 | 3,31 | 200-00 | -50 | 20\% |
| Entertainment | 300-00 | 3,97 | c |  |  |
| Totals | a 7556.00 |  | b |  |  |

a. Calculate the total budgeted expenditure.
b. Calculate the total expenditure for the month of April.
c. Calculate how much Sam's parents had left in April for entertainment.
d. Calculate the percentage that each expense item constitutes with respect to the total expenditure.
e. Calculate the variance amounts between the budgeted amounts and the expenses for April. State whether the variance is positive or negative.
f. Calculate the percentage variance for each expense item (state positive or negative.)
2. Prepare an income statement using the following figures for the year 2001 from the business of J.J. Dampies who is a builder:
Services rendered - R590 000; Salaries - R48 000; Telephone - R7 000;
Interest received - R5 000; Rent paid - R12 000; Transport costs - R8 000; Stationery - R3 000; Building materials - R300 000.

| Income: |  |
| :--- | :--- |
| Services rendered | 590000 |
| Interest received | 5000 |
| Total Income | 595000 |
| Expenses: |  |
| Salaries | 48000 |
| Telephone | 7000 |


| Rent paid | 12000 |
| :--- | :--- |
| Transport costs | 8000 |
| Stationery | 3000 |
| Building materials | 300000 |
| Total Expense | 378000 |
| Net income: | $\mathbf{2 1 7 0 0 0}$ |

3. Make a list of all items that need to be considered expenses in your chosen line of work.

## Studying the income statement

Explain the importance of analysing the income statement, to determine whether the organisation is profitable, and what the major areas of expenditure are. Explain how the income statement is used to measure the performance of the company against industry standards, previous years' financial statements and the goals of the organisation. Also show how the income statement is used to determine the budget for the next year.

## Case study 4 - Income statement Noluthando's Little Laundry

Use the figures from module 1 to compile an income statement for June of 2009 for Noluthando's Little Laundry.

Students should be able to complete this activity in class. Note that the interest payment has been somewhat simplified to avoid complex annuity payments (15\% of R29 000).

Income Statement For Noluthando's Little Laundry
Sales
Less: Costs (7713.36)

Install of dishwasher 195,45
Interest payments 4350
Petrol 800
Driving class 720
L. Lic, Drv Lic \& photo 230

Car registration 618,27
Soap 380,64
Water \& electricity 400
Net profit
$(2263,36)$

### 1.7 Budgets

## Personal, regional and/or national budgets:

- Explain that a budget is a description of the spending/expenditures and financing plans/proposed means of financing, of an individual, a company, a government, or for a specific purpose.
- Give examples of various types of budgets and organisations that budget.


## Activity 7 - Interpret the news

This activity can be completed by students in class or as homework.
The annual budget is presented by the Minister of Finance at the end of February of each year. The first table gives the main features of the National Budget of 2005/2006 as delivered by the Minister of Finance at the end of February 2005. The second table is from the Sunday Times of 24 ${ }^{\text {th }}$ February 2008.

1. Study the two tables and conclude what is meant by a "billion". Each figure in the table should actually be multiplied by 1000000 000, e.g. $R 25,4=R 25,4$ billion $=R 25400000000$.
2. Why are two years attached to each year?

The financial year runs from 1st March of any given year to the last day of February of the next year.
3. What do the sections "other" and "payment of interest" mean?

Other $=$ smaller sections of expenses grouped together.
Payment of interest = interest on money owed.
4. Calculate the variance (difference) between the amounts for 2007 and 2008
5. Calculate the $\%$ variance 2007 to 2008.
6. Calculate the $\%$ variance from 2005 to 2008.
7. Calculate $\%$ expenditure on each item of the 2008 budget.

| Expenditure: in billion Rand - 2005/2006 |  |
| :--- | ---: |
| Defence Force | 25,4 |
| Police | 30,5 |
| Prison services | 9,7 |
| Justice | 6,4 |
| Education | 82,0 |
| Health | 48,1 |
| Social Services/ Welfare | 72,7 |
| Housing | 7,3 |
| Community Development | 14,3 |
| Water | 6,3 |
| Fuel and Energy | 2,7 |
| Agriculture | 9,8 |
| Mining, Manufacturing and Construction | 2,2 |
| Transport and Communication | 19,5 |
| Other | 45,3 |
| Payment of Interest | 53,1 |
| Total | 435,3 |


| Millions of rands | 2007/2008 | 2008/2009 | Variance amount: '07-'08 | \% variance: ’07-'08 | \% <br> variance <br> ‘05-‘08 | \% expenditure '08 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Protection services | 86992 | 95324 | 8332 | 9,6\% |  | 13,3\% |
| Defence and intelligence | 28579 | 30440 | 1861 | 6,5\% |  | 4,2\% |
| Police | 38563 | 42730 | 4167 | 10,8 |  | 6,0\% |
| Prisons | 11114 | 12050 | 936 | 8,4\% |  | 1,7\% |
| Justice | 8736 | 10105 | 1369 | 15,7\% |  | 1,4\% |
| Social services | 311678 | 354444 | 42766 | 13,7\% |  | 49,5\% |
| Education | 105746 | 121087 | 15341 | 14,5\% |  | 16,9\% |
| Health | 68169 | 75492 | 5323 | 7,8\% |  | 10,5\% |
| Welfare | 92224 | 105309 | 13095 | 14,2\% |  | 14,7\% |
| Housing | 12370 | 14784 | 2414 | 19,5\% |  | 2,1\% |
| Community develop. | 33170 | 37772 | 4602 | 13,9\% |  | 5,3\% |
| Economic services | 143213 | 165213 | 22000 | 15,4 |  | 23,1\% |
| Water | 15994 | 16775 | 781 | 4,9\% |  | 2,3\% |
| Fuel and energy | 7045 | 5651 | 1394 | 19,8\% |  | 0,8\% |
| Agriculture, forestry | 14145 | 14624 | 479 | 3,9\% |  | 2,0\% |
| Mining, manufacturing | 2845 | 2775 | 70 | 2,5\% |  | 0,4\% |
| Transport \& comm. | 54991 | 71281 | 16290 | 29,6\% |  | 10,0\% |
| Other economic services | 48195 | 54107 | 5912 | 12,3\% |  | 7,6\% |
| Unallocated expenditure | 34876 | 40302 | 5426 | 15,6\% |  | 5,6\% |
| Total allocated expenditure | 576760 | 655283 | 78523 | 13,6\% |  | 91,5\% |
| Interest | 55772 | 54960 | 812 | 1,5\% |  | 7,7\% |
| Contingency reserve | - | 6000 | 6000 | 100\% |  | 0,8\% |
| Total expenditure | 632532 | 716243 | 83711 | 13,2\% |  |  |



Lecture slide \#74-79

## Case study 5 - Role play

## Little Laundry - budget

Students should complete this activity in class.
Your friend plays the role of Noluthando and you are her accountant, Sipho. Noluthando is anxious about her finances and asks you to compile a budget for her.
From the information in Module 1 Activity 12 as well as from the income statement in the activity above, you know:

- how much money she has as an opening balance, and
- how much she earns on average per month.

1. You arrange a meeting with her to discuss her expenses. You discuss a list of possible expenses with her - some of the expenses might not be applicable to Noluthando's situation. The two of you have to complete the following list:

|  | Amounts |
| :--- | :---: |
| A. Take home pay | 5450,00 |
| B. Monthly expenses: |  |
| Rental | 950,00 |
| Car running expenses | 800,00 |
| Rates, water \& electricity | 618,27 |
| Insurance |  |
| Telephone | 200,00 |
| Clothing |  |
| School expenses | 900,00 |
| Loan/Credit Card/ HP |  |
| Food and household |  |
| Entertainment | 3468,27 |
| Other | 1981,73 |
| Total monthly expenses |  |
| Amount remaining for monthly loan repayments |  |

2. Noluthando's role now changes to that of your personal assistant as accountant. Together you have to complete the table overleaf.
The following worked example will assist you in your calculations:
Calculate the \% interest charged on the final amount:

- For a loan amount of R8 000:

Final payment amount ( 24 -month/option A): $551 \times 24$
$=$ R13224
R13 224 - R8 000
$=\underline{\mathrm{R} 5224}$
$\therefore$ \% interest charged
$=\underline{\underline{5224}} 8 \mathbf{1 0 0}$

$$
=65,3 \%
$$

- For Noluthando's amount:

65,3
$100 \times 29000$
$=\underline{\mathbf{R 1 8 9 3 7}}$
Total amount of repayment (excluding R10 000 deposit) : R29 000 + R18 937
$=\underline{\mathbf{R} 47937}$
Monthly installment:
47937
$24=\underline{\text { R1 997, 38 } / \text { month }}$

| Loan amount | $\mathbf{2 4}$ months |  |  |  | $\mathbf{3 6}$ months |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | Option A | Option B | Option C | Option A | Option B | Option C |
| \% interest charged | $\mathbf{6 5 , 3 \%}$ | $\mathbf{1 7 , 5 \%}$ | $\mathbf{1 9 , 2 \%}$ | $\mathbf{5 9 , 4 8 \%}$ | $\mathbf{2 6 , 5 7 \%}$ | $\mathbf{2 9 , 2 4 \%}$ |
| 8000 | 551 | 391,67 | 397,33 | 354,40 | 281,27 | 287,20 |
| 10000 | $16530 \div 24$ <br> $=688,75$ | 465,63 | 496,67 | 443 | 351,58 | 359 |
| 15000 | 1033,13 | 698,44 | 745,24 | 664,50 | 527,38 | 538,50 |
| 25000 | 1721,88 | 1224,08 | 1241,67 | 1107,50 | 878,96 | 897,50 |
| 29000 | R1 997,38 | R1 419,79 | R1440,33 | R1 284,70 | R1019,56 | R1041,16 |

3. Back to Noluthando. You show her the table that you have compiled of various lending options for 24 -month and 36 -month periods. You ask her how much she is prepared to give as monthly installment for the remaining R30 000 owed on the car.
Add this amount to her budget.
A wise decision would be R1419,79 which would mean that she has some money to spare for any possible emergencies. She would then repay the loan in 24 months and it would cost her $1419,79 \times 24=$ R34074,96 which is 5074,96 more than the R29000.
4. Adapt her budget if she is in the red, i.e. make a plan for her.

She is not in the red.

## Activity 8 - develop a budget

Students should complete this assignment as homework.
You want to sell hot dogs at the queue where people stand waiting the whole day to receive their social grants. This happens once a month.
a. List all items to be bought or rented.
b.Find the prices of each item.
c. Decide on quantities to be bought.
d.Calculate how much one hot dog is going to cost you.
e. Decide how much you will charge per hot dog.
f. Develop a budget which includes payment of a friend who will assist you.
g.Calculate your expected net profit.

### 1.8 More documents

- Hire-purchase contract
- Loan agreement contract
- Rental contract


## Assignment

Student's own research.

Ask around either in the class, amongst fellow-students or at a business, to find someone who has knowledge of these contracts.
Find out:

1. What kind of information is necessary to be accepted as a contracted person?
2. Is it possible for a furnishing store to re-possess/take back furniture that you buy under a hire-purchase agreement? Explain.
3. If the store does re-possess the bought item, what happens to the installments that you have already paid?
4. Which is better for a contracted person: to pay smaller or larger amounts per month?
5. What maximum $\%$ is a loan-business allowed to charge you?
6. If you have signed a rental contract for a flat for 24 months and you have to move out of the area, what can you do to prevent having to continue paying the monthly rental amount?
7. Did your friend read the "fine print"? If so, what did it say? If your enquiry is directed to a store, ask them what is in the "fine print".

### 1.9 Tables

You have encountered quite a few tables already in this module. Here is one more.

## Activity 9-Cell phone vs. land line rates

Look at the table for cell phone rates:

|  | Off-peak $^{* * *}$ | Peak $^{* *}$ | Happy hour $^{*}$ |
| :--- | :--- | :--- | :--- |
| Cell phone to cell phone | R0,97 | R1,80 | R1,49 |
| To national landline numbers (Telkom) | R0,97 | R2,20 | --- |
| SMS per message | R0,35 | R0,80 | --- |

*** 20h00 - 07h00 Monday to Friday, and
00h00 - 24h00 Saturday, Sunday \& public holidays
** 07h00 - 20h00 Monday to Friday

* 17h00-20h00 Monday to Friday


## Questions:

1. Explain the words "peak", "off-peak" and "happy hour".
"Peak is when there is a peak or surge of calls i.e. when most people want to make calls. "Off-peak" is when few people call e.g. at midnight. "Happy hour" is between the "peak" and the "off-peak" time around 18h00.
2. Is it cheaper to quickly phone ( 45 seconds) or to send an SMS? SMS is much cheaper than any phoning.
3. During one month you make the following calls: 45 calls from cell phone to cell phone of which 30 are orders placed which last on average two
minutes each, and 15 calls from cell phone to land-line. Nine of the latter calls last about 5 minutes (peak time) and the rest take 7 minutes each (off-peak). All of the business calls are in peak time. You also used happy hour rates for 22 calls to family and friends, talking on average 10 minutes per call. You send about 100 SMS's during the month. Calculate your cell phone cost for the month.
$30 \times 2 \times 1,80=108$
$9 \times 5 \times 2,20=99$
$6 \times 7 \times 0,97=40,74$
$22 \times 10 \times 1,49=24,50$
$70 \times 0,35=24$
Total amount $=$ R624,04

## Summative assessment

This should serve as the final revision before the summative assessment test.
Students should complete this alone and in silence.

Note: For learners to be able to complete this activity, they will need to know the following:

Selling price of each item (markup of 40\%)

- Toffees R1,10 ea
- Lollipops 40c ea
- Boiled sweets 15 c ea
- Potato crisps 50c ea
- Cheese curls 50c ea
- Chocolate bars R2,67 ea
- Tennis biscuits R2,80 ea
- Carbonated drinks R5,60 ea
- Fruit juice R2,75 ea
- Bananas R1,40 ea
- Apples R2:20 ea
- Oranges R2,35 ea
- Matches 60c/box
- Cigarettes 1 R1,55 / cigarette
- Cigarettes2 R2,10 / cigarette
- Assume that a month has 20 days
- Assume that any fruit not sold is wasted.
- Expenses should be calculated on stock used not stock bought, learners will therefore have to calculate the cost of stock used at cost price.
- Profit margin $=$ Net profit/sales $\times 100$

1. Noluthando's daughter, Thuleka, decides in February to start a small tuck shop on the premises of the Little Laundry.
Her mother agrees that she can use a table and cool box to put the drinks and ice in. She expects to do good business because of the location of their house:

- They live five houses from the clinic.
- All of the students of the local high school pass the little Laundry during the school term. She has saved R850 from doing waitressing at a local restaurant and will use this money to start her small business. She decides to buy the following stock:
- Separate toffees/lollipops/boiled sweets (bought in big bags, sold separately): lollipops cost R15 for 50; boiled sweets cost R25 for a bag of 250 ; toffees cost R80 for a bag of 100 .
- Potato crisps and cheese curls, 30 g packets cost R19 for 50 packets.
- Assortment of small chocolate bars - about R120 for 45 bars.
- Tennis biscuits - cost R48 for 24 packets.
- Tins of carbonated drinks - cost R48 for 12 tins.
- 250 ml containers of fruit juice - this costs R235 for a box of 200.
- Bananas - cost R3,99 per kilogram and there areabout 4 bananas per kilogram.
- Apples - cost R7,95 per kilogram and there are about 5 apples per kilogram.
- Oranges - cost about R4,99 per kilogram and there are about 3 oranges per kilogram.
- Matches - a packet of 12 boxes cost R5,00.
- Two different brands of cigarettes - the one kind costs R22,00 per packet and the other costs R29,50 per packet.

| Item | Stock bought | Amount (bought; sold at cost) | Stock sold | Amount | Profit |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Toffees | 200 | R160; R148 | 185 | 203,50 | R55,50 |
| Lollipops | 200 | R60; R46,80 | 156 | 62,40 | R15,60 |
| Boiled sweets | 250 | R25; R21,50 | 215 | 32,25 | R10,75 |
| 30 g potato crisps | 100 | R38; R19,76 | 52 | 26,00 | R6,24 |
| Cheese curls | 150 | R57; R47,12 | 124 | 62,00 | R14,88 |
| Chocolate bars | 90 | R240; R98,79 | 37 | 166,50 | R67,71 |
| Tennis biscuits | 72 | R144; R116 | 58 | 162,40 | R46,40 |
| Tins of carbonated drinks | 60 | R240; R220 | 55 | 308,00 | R88 |
| Fruit juice | 200 | R235; R141,60 | 120 | 330,00 | R188,40 |
| Bananas | 6 / day | R120; R120 | 6 / day | 168 | R48 |
| Apples | 12 / day | R381,60; R281,60 | 10 / day | 445,20 | R163,60 |
| Oranges | 20 / day | R668; R668 | 17 / day | 799,00 | R131 |
| Matches | 15 boxes / <br> day | R126; R126 | 15 boxes / day | 175,00 | R49,00 |
| Cigarette 1 | 30 packets | R660; R550 | 25 cigs. / day | 775,00 | R225 |
| Cigarette 2 | 20 packets | R580; R522 | 18 cigs. / day | 756,00 | R234 |
| Ice | 2 bags / day |  |  | Not sold |  |

## Questions:

1. Calculate her expenses and income. (see table)
2. Draw up an income statement for the first month of Thuleka's small business.

|  | Income Statement for Thuleka's Shop |  |
| :--- | :--- | :--- |
| Sales |  | 4471.25 |
| Less Costs: | 3127.17 | $(3127.27)$ |
| Stock |  | 1343.98 |
| Net Profit |  |  |

3. Draw up a budget for Thuleka listing the separate items to guide her. Students should draw up their own budgets based on what they predict the sales to be, or if it is easier, assume that sales will increase by $10 \%$ in the next moneth.
4. What is her profit margin?

Profit margin $=$ Net profit $/$ sales $x 100$

$$
=30 \%
$$

5. Her business does very well and she has no time before the end of the month to visit the bank. She therefore has the whole month's income in her pocket when she goes to the bank with Noluthando on the last day of the month. She has to apply for a savings account. Decide which bank to use - look at the table of bank charges. Get an application form from a bank and fill it in for her.
Learners own work.
6. Fill in the deposit slip with Thuleka.

Learners own work.
7. Explain to Thuleka which documents she should keep and why she should do this.
Learners own work.
8. Thuleka needs you to help her save on phone costs.

Advise her at what time of day to phone. Work out how much her cell phone account ( 43 calls each lasting about 1,5 minutes) will cost her in peak and off-peak times. (Refer to table in Activity 15).
Cell to cell:
Peak time - $43 \times 2 \times 1,80=154,80$
Off-peak time $-43 \times 20,97=83,42$
Off-peak phoning will save her 71,38
Cell to land-line:
Peak time - $43 \times 2 \times 2,20=189,20$
Off-peak time $-43 \times 2 \times 0,97=83,42$
Off-peak phoning will save her 105,78

