FINANCIAL CONSULTANT
FC-200V

## Worksheet



| QUESTIONS |  |
| :---: | :--- |
| 1 | Calculate the difference between <br> investment proposals |
| 2 | Calculating the difference between <br> investment options |
| 3 | Capital Budgeting Decisions |
| 4 |  |

* Clear the calculator's memory before starting a calculation

| ON SHIFT $9 \ominus \ominus$ | EXE EXE | AC |
| :---: | :---: | :---: |
| $\square$ | $\square$ | 『 |
| - SEtup : EXE | Reset All |  |
|  | Press [AC] key | (6) |

## QUESTIONS

1. Calculate the difference between the following investment proposals:

| (A) R2 000 is invested annually for 5 successive years, at the end of each year, at $10 \%$ p.a. compound interest | (B) R4 103,70 is invested for 5 years at 20\% p.a. compound interest |
| :---: | :---: |
| $\text { CMPD } \odot 5 \text { EXE } 10 \text { EXE } \odot$ |  |
|  |  |
| (-) 20000 EXE SOLVE | (DEL EXE © DEL EXE SOLVE |
|  |  |

You can assign a specific value or calculation result to a variable (A, B, C, D, X, Y)
(STO)re the FV into memory A $\quad$ RTO
(STO)re the FV into memory B


EXE

## 3 siore?



EXE

SHIFT RCL


EXE


EXE

Subtract the FV of B from the FV of A.
To include the contents of a variable in a calculation use and the variable COMP ALPHA CNVR $\square$ ALPHA COST EXE

```
A-B
    1998.881216
```

The difference between the two investment proposals is $\mathbf{R 1 9 9 8 , 8 8}$.
To ReCalL the contents of the variables RCL
\# indicates that there is data assigned to the variable


EXE


EXE


* Clear the calculator's memory before starting a calculation ON SHIFT $9 \odot \odot$ EXE EXE AC

2. What is the difference between R2 000 invested at $10 \%$ p.a. compound interest for 5 years, if:


To ReCalL the contents of the variables RCL
\# indicates that there is data assigned to the variable


EXE

| A |  |
| :--- | :--- |
|  | 3221.02 |

* Clear the calculator's memory before starting a calculation ON SHIFT $9 \odot \odot$ EXE EXE AC

3. What is the Growth Rate of the following stream of cash flows?

$$
\begin{aligned}
& \text { 2011: R1,60 } \\
& \text { 2010: R1,38 } \\
& \text { 2009: R1,32 } \\
& \text { 2008: R1,25 } \\
& \text { 2007: R1,20 }
\end{aligned}
$$

```
CMPD \odot 5 | 1 EXE \odot (-) 1 - 0 0 0 EXE
```


© $1 \rightarrow$ ( 0 EXE ( $)$ (4) (4) SOLVE

$P \mathrm{~V}=-1.2$
$\mathrm{PHT}=0$
$F \mathrm{~W}=1.6$

The Growth Rate is 7,46\%

* Clear the calculator's memory before starting a calculation

ON SHIFT $9 \odot \odot$ EXE EXE AC

## 4. Capital Budgeting Decisions

Net present value (NPV)
Internal rate of return (IRR)

| Initial investment | Project A | Project B |
| :--- | :--- | :--- |
|  | -R84 000 | -R90 000 |
| Year | Net cash inflow (R) | Net cash inflow (R) |
| 1 | 28000 | 56000 |
| 2 | 28000 | 24000 |
| 3 | 28000 | 20000 |
| 4 | 28000 | 20000 |
| 5 | 28000 | 20000 |

Cost of capital 15\%

| Project A | Project B |
| :---: | :---: |
| CASH 15 EXE | CASH 15 EXE |
|  |  |
| $\begin{array}{l\|l\|l\|l\|l\|l\|l\|} \hline \text { EXE } & (-) & 8 & 4 & 0 & 0 & 0 \\ \hline 2 & 8 & 0 & 0 & 0 & \text { EXE } \end{array}$ | $\begin{aligned} & \text { EXE } \begin{array}{lllllll} (-) & 9 & 0 & 0 & 0 & 0 & \text { EXE } \\ 5 & 6 & 0 & 0 & 0 & \text { EXE } \end{array} \end{aligned}$ |
|  |  |
| 20800 EXE | 20 40000 EXE |
| 20800 EXE | 200 0 0 EXE |
| 2 0 0 0 0 Exe | 200 0 0 EXE |
| 20800 EXE | 200 0 0 EXE |
|  |  |


| Project A | Project B |
| :---: | :---: |
| ESC $\odot \odot$ | ESC $\odot \odot$ |
|  |  |
| EXE | EXE |
| $\mathrm{WFW}=986 \mathrm{E} .342744$ | $\mathrm{WFW}=11372.02446$ |
| ESC) $\odot$ | ESC ${ }^{-1}$ |
| $\square$ |  |
| EXE | EXE |
| IRR=19.85770979 | IRR=21.65011673 |
| Net Present Value (NPV) is <br> R9 860,34 <br> Internal Rate of Return (IRR) is 19,8577\% | Net Present Value (NPV) is <br> R11 372,02 <br> Internal Rate of Return (IRR) is 21,6501\% |

## Mokonyane Lediha

Calculator Training \& Promotions
Cell: 0737729991
Office: 0113148888
mokonyanel@jamesralph.com


VISIT OUR WEBSITE FOR RESOURCES
www.casio.jamesralphedu.co.za


