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ROR

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Rate of Return Calculator

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Number of Periods/Yr:

Period
Number

Cash Flow

Accumulated
Cash Flow

Sheet1

```
===== == == DISCFAC: #DIV/0! 20
REINVFAC: #DIV/0!
----- --- TEMP: 4
No of Pds: 0
===== == == Present Future
Value Value
#NAME? #NAME?
Cash Cash Modified
Outflows Inflows Cashflow
```

```
===== == ==
Discount Rate =====>>
Reinvestment Rate ==>>
----- ---
Internal ROR .....
Modified IRR .....
Financial Mgmt. ROR ..
----- ---
IRR 1st Estimate ==>>
```

Sheet1

```
\0: \B:  
{home}  
/WGPD  
/DFa10.a310~0~1~300~  
/REendmsg_p1~/REcfmsg_p1~/Ccopyright~copyright_p1~/REi1~  
/WGPE  
/XMmenu~
```

```
MENU:  
Input  
Input cashflow values and discount/reinvestment rates.  
/XMinput~
```

```
INPUT:  
Cashflow  
Enter cashflow values.  
/RUendmsg_p1~/Cendmsg~endmsg_p1~/RUendmsg_p1~  
/RUcfmsg_p1~/Ccfmsg~cfmsg_p1~/RUcfmsg_p1~  
{goto}b10~  
{?}{down}/XGinputloop~
```

```
CALC:  
/XIi1=@COUNT(b10.b310)~/XCsamecalc~/XMmenu~  
/XI2>@COUNT(b10.b11)~/XCbeep~/XLToo few cashflow values.~temp~/XMmenu~  
/XI$c$7=0~/XCbeep~/XLPeriods/Year not specified.~temp~/XMmenu~  
/WGPD  
/REc10.c310~/REg10.i310~  
{goto}a10~/RNCpdnums~{bs}.{right}{end}{down}{left}~  
{right}/RNCcashflow~{bs}.{end}{down}~  
{right}/RNCcumcash~{bs}.{left}{end}{down}{right}~  
+{up}+{left}~/C~.cumcash~  
/Ccashflow~g10.i10~  
{goto}g10~@MIN(0,$b10)~/RNCoutflows~{bs}.{end}{down}~/C~.outflows~  
{right}@MAX(0,$b10)~/RNCinflows~{bs}.{end}{down}~/C~.inflows~  
/C{end}{down}~{right}~  
{right}+g7+{left}~/RNCmcash~{bs}.{end}{down}~  
{goto}h4~@COUNT(cashflow)~  
{goto}g7~+$discfact*@NPV($discfact-1,outflows)~  
{right}($reinvfact^npd)*@NPV($reinvfact-1,inflows)~  
/XCsetsieve~  
{goto}f16~(1+@IRR(@IF(est1irr<>0,est1irr,w2),cashflow))^$c$7-1~  
{down}@IF(0<@NPV(1,mcash)#OR#0>@NPV(0,mcash),@NA,(1+@IRR(1,mcash))^$c$7-1)~  
{down}@IF(fvin<@ABS(pvout),@NA,(@ABS(fvin/pvout)^(1/(npd-1)))^$c$7-1)~  
{goto}i1~@COUNT(b10.b310){calc}~  
{home}/WGPE  
{calc}  
/XMmenu~
```

BEEP:
//{esc}
/XR

Blank
Blank out input data and results.
/XMblank~

Periods/Yr
Enter number of periods per year.
/XNPeriods per year: ~temp~
/XI(temp<=0)#OR#temp<>@int(temp)~/XCbeep~/XLMust be a positive integer.~temp~/XGj17~
/Ctemp~c7~
/XMinput~

\M:
{home}
/REendmsg_p1~/REcfmsg_p1~
/XMmenu~

QOUT:
{edit}{home}{del}~/XR

Calc
Calculate results.
/XGcalc~

DiscRate
Enter the annual discount rate (%) for cash outflows.
/XNAnnual discount rate: ~temp~
{goto}discrate~.01*temp{calc}~{home}
/XMinput~

BLANK:
No
Do not blank out data. Return to main menu.
/XMmenu~

Sheet1

\\:
{home}
/REendmsg_p1~/REcfmsg_p1~
/XMinput~

Results
Display results.
/XGresults~

ReinvRate
Enter the annual re-investment rate (%) for cash inflows.
/XNAnnual reinvestment rate: ~temp~
{goto}reinvrate~.01*temp{calc}~{home}
/XMinput~

Yes
Blank out input and results areas. Return to main menu.
/WGPD
/REb10.c310~/REc7~/REf13.f14~/REf16.f18~/REf20~
/WGPE
/XMmenu~

GRAPHMENU:
Cashflow
Display cashflow and cumulative cashflow.
/GXpdnums~Acashflow~Bcumcash~OTF{esc}CASH FLOW~TX{esc}Period Number~
LA{esc}Cash Flow~LB{esc}Cum. Cash Flow~QQ
{goto}setskip~{down}@MAX(1,@INT(npd/5)){calc}~{edit}{home}'~/XCsetskip~
{home}{graph}
/XMgraphmenu~

AGENDA:
No
Do not clear this worksheet. Return to main menu.
/XMmenu~

SETSIEVE:
{goto}sieve~{right}/C~.{end}{down}~
{left}@NPV({right},\$cashflow)~/C~.{end}{down}~
{query}

/XR

Sheet1

To Finish, Press Ctrl-Break then Alt-I.

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In the Cash Flow Column:

- Cash Inflows are POSITIVE
- Cash Outflows are NEGATIVE
- Period 0 is NOW

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Graph

Display graphs.

/XGgraph~

EstIRR

Enter first estimate for internal rate of return.

/XNEnter estimate of IRR: ~temp~

{goto}est1irr~.01*temp{calc}~{home}

/XMinput~

NPV

Display net present value vs. discount rate.

/GXsievepct~Asievenpv~RBQOTF{esc}NET PRESENT VALUE~TX{esc}Discount Rate %~

LA{esc}Net Present Value~QQ

{goto}setskip~{down}4~/XCsetskip~

{home}{graph}

/XMgraphmenu~

Yes

Clear this worksheet. Go to worksheet selection agenda.

/FRagenda~

=====

Print
Print results.
/XGprint~

Agenda
Return to worksheet selection agenda.
/XMagenda~

Quit
Return to main menu.
/XMmenu~

SCROLL:
Down
Scroll down one screen.
{pgdn}
/XMscroll~

Up
Scroll up one screen.
{pgup}
/XMscroll~

Type
Select line graph, bar chart, or scatter plot.
/XMgraphtype~

Options
Choose color or monochrome monitor.
/XMoptions~

SETSKIP:
/GOSS
Q
~QQ/XR

Quit
Exit to 1-2-3 READY mode.

RESULTS:
{home}
/X12>@count(b20.b21)~/XMmenu~
/WTH
/XMscroll~

Quit
Return to main menu.
/WTC
/XMmenu~

Quit
Return to main menu.
/XMmenu~

SAMECALC:
/WGPD
/XCsetsieve~
/WGPE
{home}{calc}
/XR

Sheet1

NPV	%/period
Err:504	0.00%
Err:504	5.00%
Err:504	10.00%
Err:504	15.00%
Err:504	20.00%
Err:504	25.00%
Err:504	30.00%
Err:504	35.00%
Err:504	40.00%
Err:504	45.00%
Err:504	50.00%
Err:504	55.00%
Err:504	60.00%
Err:504	65.00%
Err:504	70.00%
Err:504	75.00%
Err:504	80.00%
Err:504	85.00%
Err:504	90.00%
Err:504	95.00%
Err:504	100.00%

GRAPH:
/GOTS{?}~QQ
/XMgraphmenu~

OPTIONS:
Color
Display graphs in color.
/GOCQQ{graph}
/XMgraphmenu~

B&W
Display graphs in monochrome.
/GOBQQ{graph}
/XMgraphmenu~

GRAPHTYPE:
Line
Display line graph.
/GTXOFABBBQQQ{graph}
/XMgraphmenu~

Bar
Display bar chart.
/GTBQ{graph}
/XMgraphmenu~

PRINT:
/XLAlign paper. Press enter.~temp~
{home}{goto}a10~
/XInpd<=10~/PPRa10.f20~Q
/XInpd>10~/PPR{bs}~.~{right}{right}{end}{down}{right}{right}{right}~Q
/PPOBRa7.a9~Q
AGPQ
/XMmenu~

Sheet1

% p.a.	NPV	%/period
0	Err:504	1.23%
5		
10		
15		
20		
25		
30		
35		
40		
45		
50		
55		
60		
65		
70		
75		
80		
85		
90		
95		
100		

Scatter
Display scatter graph.
/GTXOFASBSQQQ{graph}
/XMgraphmenu~