

3.3. Inkomste en Uitgaves  
\*Gaان deur Verskillende tipes inkomstes op bl. 86 en 87

## 3.4 Rente

Ontvang rente: In jou voordeel ☺  
Om geld weg te sit waar dit rente verdien.

Betaal rente: In ander se voordeel ☹  
Geld verskuldig/geleen loop rente by.



Tydperk	n	
Daglik	÷ 365	
Maandeliks	÷ 12	
Kwartaalliks	÷ 4	→ 3 maande elk
Halfjaarlik	÷ 2	→ 6 maande elk
Jaarlik	÷ 1	

Rente koers: % rente b.v. 8% =  $\frac{8}{100}$

# Enkelvoudige Rente

Die rente verdien vir 'n enkele tydperk by konstant

## Voorbeeld

→ Jan belê R5000 vir 3 jaar teen 'n rente koers van 10% p.a.

Toekomstige bedrag: ?

Huidige bedrag: R5000

Tydperk: 3 jaar

Rente koers: 10% /  $\frac{10}{100}$

→ Rente vir 1 jaar

$$R5000 \times \frac{10}{100} \div 1 = \underline{R500}$$

$R500 \times 3 \text{ jaar} = \underline{R1500}$  Rente oor 3 jaar

$$\therefore \begin{array}{l} R5000 \\ \text{[bedrag} \\ \text{belê]} \end{array} + \begin{array}{l} R1500 \\ \text{[Rente verdien} \\ \text{na 3 jaar]} \end{array} = \underline{R6500}$$

→ Na die 3 jaar wil Jan hê die geld moet maandeliks aan hom uit betaal, oor 'n tydperk van 2 jaar.

$$\therefore \begin{array}{l} R6500 \\ \text{[Totale bedrag} \\ \text{in belegging]} \end{array} \div \begin{array}{l} 24 \text{ maande} \\ \text{[2 jaar} \times 12] \end{array} = R270,83$$

# Huurkoop

Kan rente eenvoudig- / saamgestelde wees.

Huurkoop beteken: [korttermynlening]

Jy huur die goedere totdat dit ten volle afbetaal is.

Voorbeeld:

Deposito: 15%

Pruduk prys: R10 000

Tydperk: 24 mnde = 2 jaar

Rente koers: 10% per jaar

1 Bereken die totale bedrag wat betaal moet word?

Deposito:

$$R10000 \times \frac{15}{100} = R1500$$

$$\therefore R10000 - R1500 = R8500$$

Rente op leningsbedrag:

$$\text{Jaar } 1: R8500 \times \frac{10}{100} = R850$$

$$\therefore R850 \times 2 = R1700 \rightarrow 2 \text{ jaar se rente.}$$

Totale bedrag:

$$R8500 + R1700 = \overbrace{R10200}^{\text{Moet mnd terug betaal}} + \overbrace{R1500}^{\text{Deposito}} \\ = R11700$$

2 Bereken die maandelikse paaiement

$$R10\ 200 \div 24 \text{ mnde} = R\ 425 \text{ per maand.}$$

Doen oefening 4 : bl. 95-96

1  $R1200 \times \frac{5,5}{100} = R66$  [Rente vir 1 jaar]  
 $R66 \times 3 \text{ jaar} = R198$  [Rente vir 3 jaar]  
Totaal =  $R1200 + R198 = R1\ 398$

2.1  $R800 \times \frac{6,8}{100} = R54,4$  [vir 1 jaar]  
 $R54,4 \times 5 = R272$

2.2  $R800 + R272 = R1072$

3.1  $R3500 \times \frac{3,5}{100} = R122,5$  [vir 1 volle jaar]  
 $\therefore R122,5 \times 2,5 = R306,25$

3.2  $R3500 + R306,25 = R3806,25$

4.1  $R12000 + \left[ \left( R12000 \times \frac{7,9}{100} \right) \times 5 \right] = R14\ 844$

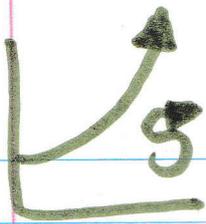
4.2  $R14\ 844 - R12\ 000$   
 $= R\ 2844$

5  $R11\ 499 \times \frac{20}{100} = R2299,8$   
 $R11\ 499 - R2299,8 = R9\ 199,2$

$\left( R9\ 199,2 \times \frac{17,5}{100} \right) \times 3 = R4829,58$  [Rente vir 3 jaar]

Totaal:  $R9\ 199,2 + R4829,58 = R14\ 028,78$

$R14\ 028,78 \div 36 \text{ mnd} = R389,68 \text{ per mnd}$



# Saamgestelde Rente

Rente op Rente

## Voorbeeld

Jan belê R10 000 vir 1 jaar teen 5% pa saamgestel.

### [ Jaarliks ]

$$R10\,000 + (R10\,000 \times \frac{5}{100} \div 1) = \underline{R10\,500}$$

Jaarliks saamgestel

### [ Maandeliks ]

$$R10\,000 + (R10\,000 \times \frac{5}{100} \div 12) = \underline{R10\,041,67} \quad 1$$

Maandelikse saamgestel

$$R10\,041,67 + (R10\,041,67 \times \frac{5}{100} \div 12) = \underline{R10\,083,51} \quad \text{Mnd 2}$$

$$R10\,083,51 + (R10\,083,51 \times \frac{5}{100} \div 12) = R10\,125,52 \quad \text{Mnd 3}$$

$$R10\,125,52 + (R10\,125,52 \times \frac{5}{100} \div 12) = R10\,167,71 \quad \text{Mnd 4}$$

$$R10\,167,71 + (R10\,167,71 \times \frac{5}{100} \div 12) = R10\,210,08 \quad \text{Mnd 5}$$

$$R10\,210,08 + (R10\,210,08 \times \frac{5}{100} \div 12) = R10\,252,62 \quad \text{Mnd 6}$$

$$R10\,252,62 + (R10\,252,62 \times \frac{5}{100} \div 12) = R10\,295,34 \quad \text{Mnd 7}$$

$$R10\,295,34 + (R10\,295,34 \times \frac{5}{100} \div 12) = R10\,338,24 \quad \text{Mnd 8}$$

$$R10\,338,24 + (R10\,338,24 \times \frac{5}{100} \div 12) = R10\,381,31 \quad \text{Mnd 9}$$

$$R10\,381,31 + (R10\,381,31 \times \frac{5}{100} \div 12) = R10\,424,57 \quad \text{Mnd 10}$$

$$R10\,424,57 + (R10\,424,57 \times \frac{5}{100} \div 12) = R10\,468,01 \quad \text{Mnd 11}$$

$$R10\,468,01 + (R10\,468,01 \times \frac{5}{100} \div 12) = \underline{R10\,511,62} \quad \text{Mnd 12}$$

### [ Kwartaalliks ]

Kwartaallike saamgestel

$$R10\,000 + (R10\,000 \times \frac{5}{100} \div 4) = R10\,125 \quad [1^{\text{de}} \text{ 3 mnde}]$$

$$R10\,125 + (R10\,125 \times \frac{5}{100} \div 4) = R10\,251,56 \quad [2^{\text{de}} \text{ 3 mnde}]$$

$$R10\,251,56 + (R10\,251,56 \times \frac{5}{100} \div 4) = R10\,379,71 \quad [3^{\text{de}} \text{ 3 mnde}]$$

$$R10\,379,71 + (R10\,379,71 \times \frac{5}{100} \div 4) = R10\,509,45 \quad [4^{\text{de}} \text{ 3 mnde}]$$

[Halfjaarliks]

halfjaarliks saamgestel

$$R10\,000 + (R10\,000 \times \frac{5}{100} \div 2) = R10\,250 \quad [1^{ste} \text{ 6 maande}]$$

$$R10\,250 + (R10\,250 \times \frac{5}{100} \div 2) = R10\,506,25 \quad [2^{de} \text{ 6 maande}]$$

Doen oefening 5: bl. 101-104

$$i) R_{1000} + (R_{1000} \times \frac{7}{100} \div 1) = R_{1070}$$