حل التمرين 01:

I= ? , c = 1000 DA , t= 6 % n= ?

n=

25/dec	janv	fev	Mars	avril	mai	juin	juillet	aout	sept	15oct
6jrs	31jrs	28jrs	31jrs	30jrs	31jrs	30jrs	31jrs	31jrs	30jrs	15jrs

31-25=6 jrs

n = 294 Jrs

$$I = C.\frac{i}{100}.n$$

المعدل السنوي :

المعدل سداسي :

المعدل ثلاثي :

= 49

حل التمرين 02:

$$\begin{cases} c_1 - c_2 = 250 \\ I_1 = 2\ I_2 \end{cases}$$

c_1= ? , n_1= 8 mois , t_1=6 %

c_2= ? , n_2= 6 mois , t_2=5 %

$$\begin{cases} c_1 - c_2 = 250 \ldots\ldots\ldots\ldots(1) \\ I_1 = 2\ I_2 \ldots\ldots\ldots\ldots\ldots(2) \end{cases}$$

$c_1 = c_2 + 250 \ldots\ldots\ldots\ldots(3)$

$= \frac{c1 \times t1 \times n1}{1200} = 2\ (\frac{c2 \times t2 \times n2}{1200}) \ldots\ldots\ldots\ldots(4)$

نعوض المعادلة (3) في (4) نجد :

c_2= 1000 da

ونعوضها في المعادلة (3) نجد : $c_1 = c_2 + 250$

c_1 =1250

$$I1 = \frac{c1 \times t1 \times n1}{1200}$$

$$= \frac{1250 \times 6 \times 8}{1200}$$

= 50 DA

I_2= 25 DA

حل التمرين 03:

c= ? , A = 60.625 DA , t= 5 % n= 75 jrs

A = C+ I --------/

$$I = C.\frac{t}{100}.n$$

$A= C+ C.\frac{t}{100}.n$

$A= C(1+\frac{t}{100}.n)$

$A= C(1+\frac{t}{36000}.n)$

$c= \frac{A}{(1+\frac{t}{36000}.n)} = \frac{60.625}{(1+\frac{375}{36000})}$= *60.000 DA*

حل التمرين 04:

c_1= 800 DA , n_1= ? , t_1=6 %

c_2= 825 DA , $n_2= n_1+3$, t_2=5 %

$A_1= C_1 + I_1$

$A_2= C_2 + I_2$

$A_1 - A_2 = 8.25$ ……(1)

$n_2= n_1+3$ ……(2)

$$\begin{cases} C_1(1+\frac{t1}{1200}.n1\ )- C_2(1+\frac{t2}{1200}.n2\ )= 8.25\ldots\ldots\ldots\ldots\ldots(3) \\ n_2= n_1+3\ \ \ldots\ldots\ldots\ldots(2) \end{cases}$$

نعوض المعادلة (2) في (3) نجد :

$$800*(1+\frac{6*n1}{1200})- 825(1+\frac{4n1+12}{1200})= 8.25$$

$$= \ 800+\frac{4800n1}{1200} - 825- \frac{3300n1+9900}{1200}= 8.25$$

$$= -30.000 + 4800\ n_1 - 3300\ n_1 + 9900 = 9900$$

$$1500\ n_1 = 30.000$$

$$n_1 = 20\ jrs$$

حل التمرين 05:

$t= ?;\ I= 12382.5\ ;\ C= 127000\ ;\ n = 18\ mois\ \ ;A= ?$

$$I = C.\frac{t}{100}.n$$

$$t = \frac{1200 \times I}{C.n}$$

$$t = \frac{1200\ \times 12382.5}{127000 \times 18}$$

$t= 6.5\ \%$

حل التمرين 06:

$A_1= 1612.50\ ;\ n_1= 9$ mois

$A_2= 1575\ \ ;\ n_2= 6$ mois

$C_1 = C_2$

$$\begin{cases} A_1= C_1 + I_1 \\ A_2= C_2 + I_2 \end{cases} \Longrightarrow \begin{cases} C_1 = A_1- I_1 \\ C_2 = A_2- I_2 \end{cases} \Longrightarrow A_1 - A_2 = I_1 - I_2$$

9 mois − 6mois = 9 mois − 6mois

$A_1 - A_2 = I_1 - I_2$

9 mois — 6mois = 9 mois — 6mois

3 mois

$1612.5-1575 = I_{3mois}$

$I_{3mois} = 37.5$

$I_{6mois} = I_{3mois} * 2$

$= 37.5 * 2$

$I_{6mois} = 75$

$A_{2(6\ mois)} = C_2 + I_{2\ (6\ mois)}$

$c_2 = A_2 - I_2$

$c_2 = 1575-75 = 1500$

A = S

t = i

حل التمرين 07:

n = ? ; c= 50.000 ; i= 6% S= 50.337 date = 26/03/1996

S= C+I

I= S-C

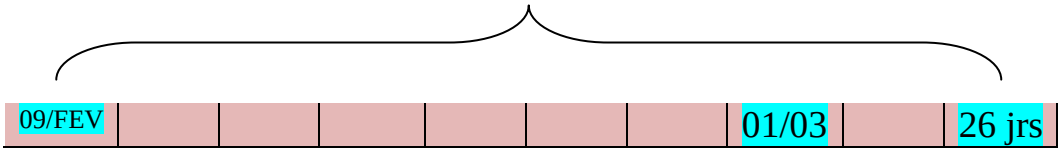
I= 50.375-50.000 = 375

$$I = \frac{C.i.n}{36000}$$

$$n = \frac{36000 * I}{c.i}$$

$$n = \frac{36000 * 375}{50.000 * 6}$$

$n = 45$ jrs



26/03/1996

حل التمرين 08:

n= 1 ; $c_{1\,=}$? ; $c_{2\,=}$? ; $c_1 + c_2$ =13200 ; c_1= 5/6 c_2 S_1=6300

$S_1= C_1+I_1$

$c_1 + c_2$ =13200

$5/6c_2 + c_2 = 13200$

$c_2(5/6+1)= 13200$

$11/6\ c_2= 13200$ $c_2 = 7200$

$c_1= 5/6\ c_2$

$c_1= 5/6\ 7200$

$c_1= 6000$

$S_1= C_1+I_1$

$$s = c(1 + \frac{i.n}{100})$$

$$s/c = (1 + \frac{i.n}{100})$$

$$\frac{s}{c} - 1 = \frac{i.n}{100}$$

$$\frac{6300}{6000} - 1 = \frac{i.1}{100}$$

$$1.05 - 1 = \frac{i}{100}$$

$$0.05 = \frac{i}{100}$$

$$i = 5$$