

ÜBUNGS-AUFGABEN ZUM ZINSRECHNEN

LÖSUNGEN

1. a)  $p = 4.5\%$

$t = 270 \text{ d}$

$Z = 364.50$

$$K_1 = \frac{Z \cdot 360}{p \cdot t} = \frac{364.50 \cdot 360}{0.045 \cdot 270} = \underline{10'800.-}$$

b)  $Z = 364.50$

$K_2 = 14580.-$

$t = 150 \text{ d}$

$K_2 = 25380 - K_1$

$$p = \frac{Z \cdot 360}{K \cdot t} = \frac{364.50 \cdot 360}{14580 \cdot 150} = 0.06 = \underline{6\%}$$

2. A = x

B = 80% von x = 0,8x

C = 2 · (x + 0,8x) = 3,6x

a)  $3,6x = 1890 \Rightarrow x = 525.-$

also: A = 525.-, B = 420.-

b)  $Z_{\text{TOT}} = 2885.-$

$p = 3\%$

$K = \frac{Z}{p} = \underline{94500.-}$

3. GEG:  $K = 1800.-$

$Z = 42.-$

$p = 0,035$

$$t = \frac{Z \cdot 360}{K \cdot p} = \frac{42 \cdot 360}{1800 \cdot 0,035} = \underline{240 \text{ d}}$$

4. GEG:  $20.3.- - 10.10. \hat{=} 200 \text{ d} = t$

$K = 7200.-$

$Z = 130.-$

GES:  $p = ?$

$$p = \frac{Z \cdot 360}{K \cdot t} = \frac{130 \cdot 360}{7200 \cdot 200} = 0,0325$$

also: p = 3,25%

5. GEG:  $K = 360.-$

$Z = 6.-$

GES: a) p

$$p = \frac{Z \cdot 360}{K \cdot t}$$

und  $t = ? \dots t = 150 \text{ d}$

also:  $p = \frac{6 \cdot 360}{360 \cdot 150} = 0,04 = \underline{4\%}$

GEG:  $Z = 108.-$

$p = 4\% = 0,04$

$t = 360 \text{ d}$

GES: b) K

$$K = \frac{Z \cdot 360}{p \cdot t}$$

$$K = \frac{108 \cdot 360}{0,04 \cdot 360} = \underline{2700.-}$$

6.  $t = 8 + 4 \cdot 30 = 128 \text{ d}$

$Z = 6.80$

$K = 510.-$

$$p = \frac{Z \cdot 360}{K \cdot t} = 0,0375 = \underline{\underline{3,75\%}}$$

7. PHASE 1 :  $K = 3600.-$

$Z = 139.50$

$t = ?$

PHASE 2 :  $K = 3600.-$

$Z = 3801.50 - 3739.50 = 62.-$

$t = 80 \text{ d}$

RECHNUNGSSCHRITTE :

1.  $p$  (aus Phase 2) =  $\frac{Z \cdot 360}{K \cdot t} = 0,0775 = \underline{\underline{7,75\%}}$

2.  $t$  (aus Phase 1) =  $\frac{Z \cdot 360}{K \cdot p} = \frac{139.50 \cdot 360}{3600 \cdot 0,0775} = 180 \text{ d}$

3. TERMIN AUSLEIHE : 1. APRIL

8. Teil 1 :  $p = 4.5\%$

$Z = 246.-$

$t = 8 \cdot 30 = 240 \text{ d}$

$$K = \frac{Z \cdot 360}{p \cdot t} = 8200.-$$

Teil 2 :  $K = 15700.- - 8200.- = 7500.-$

$t = 9 \cdot 30 = 270 \text{ d}$

$Z = 281.25$

$$p = \frac{Z \cdot 360}{K \cdot t} = 0,05 = \underline{\underline{5\%}}$$

THAT'S IT !! 😊