

1.

Time = 5 años

Inversión = 50 k.

Interés = 20% anual.

Compositos

$$C_f \cdot (1 + i)^t$$

$$C_f = 50,000 (1.20)^5$$

$$C_f = 124,416$$

$$(C_f = C_0 (1+i \cdot t))$$

1- Inversión = \$ 50

$$(C_f = 50 [(1 + 0.20)^5])$$

Tiempo = 5 años

$$(C_f = 50 (1.20^5))$$

Interés = 20%

$$(C_f = 50 (6))$$

$$C_f = \$300 \text{ k}$$

2- Prestamos \$80 k

Interés = 25% ms.

Car = 30% (p. IVA)

Tiempo = 18 meses

$$\text{Mensual neto} = 80,000 / 18 = \$4,444.44$$

$$\text{Mensual intereses} (4,444.44) (0.025) = 1,111.11$$

$$\text{Car diferido} (80,000) (0.30) = 24,000 / 18 \text{ meses} = 1,333.33$$

$$\text{Mensualidades} = \$5,888.88$$

3- Prestamos \$ 100 k

Interés = 30%

Car sin IVA = 40%

Tiempo = 24 meses

$$\text{Mes neto} = 100,000 / 24 = \$4,166.66 \text{ mes neto}$$

$$\text{Interés mes} = \text{Anual } 30\% / 12 = 2.5\% \text{ interés mensual}$$

$$= 0.025 (4,166.66)$$

$$= (0.025) (4,166.66)$$

$$\text{Car. } \$100,000 \cdot (0.40) = \$40,000 (7.16)$$

$$\text{Car sin IVA} = \$40,000 / 24 = \$1,666.66 \text{ car diferido}$$

$$\text{Mensualidades} = \$6,204.16$$

$$\text{Saldo} = \$140,899.84$$