Let sum= x

We know,

$$S.I. = \frac{PRT}{100}$$

SI= x

$$Rate= \frac{(100 \times x)}{(x \times 6)}$$

$$= \frac{50}{3}\%$$

Now sum = x, S.I= 3x

$$Rate= \frac{50}{3}\%$$

Time

$$= \frac{(100 \times 3x)}{x \times \frac{50}{3}}$$

= 18 years.