

Distance between Solwezi and Lusaka:

$$distance = 1500km \quad (1)$$

Given, the relation between miles and kilometer is:

$$mile = 1.61km \quad (2)$$

$$distance\_in\_miles = distance/miles \quad (3)$$

Compound amount earned by  $A$  after  $t = 2$  years is equal to the Compound amount earned by  $B$  after  $t = 3$  years.

$$\begin{aligned} x \left( 1 + \frac{4}{100} \right)^2 &= (81600 - x) \left( 1 + \frac{4}{100} \right)^3 \\ \text{or, } x &= (81600 - x)(1.04) \\ \text{or, } x(1 + 1.04) &= 81600(1.04) \\ \text{or, } x &= \frac{81600 * 1.04}{2.04} \\ \text{or, } x &= 41600 \end{aligned}$$