Question

a sum of rs 95000 is to be divided among A B and C in such a way that A:B is 2:3 and B:C is 2:3 what will be the share of A.

Solution

We should express all variables in terms of one variable and then there will be linear equations in one variable.

B/C = 2/3 => B = (2/3)C

A/B = 2/3 => A = (2/3)B = (2/3)(2/3)C = (4/9)C

(4/9)C+(2/3)C+C = 95000

(19/9)C = 95000

19C = 855000

C = 45000

B = (2/3)45000 = 30000

A = (2/3)30000 = 20000

Answer:

A = 20000

B = 30000

C = 45000