

3. A box of marbles was shared among Michael, Samuel and Royston. Michael got $\frac{2}{5}$ of them and the remainder was shared between Samuel and Royston in the ratio 5 : 4. Michael got 118 marbles more than Royston. How many marbles were there in the box?

$$\frac{M : S : R}{(\frac{2}{5}) : 5 : 4}$$

$$\frac{3}{5} \rightarrow 5 + 4 = 9 \text{ units}$$

$$\frac{1}{5} \rightarrow 9 \div 3 = 3 \text{ units}$$

$$\text{Michael} \rightarrow 2 \times 3 = 6 \text{ units}$$

$$\frac{M : S : R}{6 : 5 : 4}$$