Unit 21 – Ratio (2)

➢ **Calculating the total amount, when the amount of one item in a ratio is given**

The ratio of girls to boys in a class is 3 : 2. If the number of girls in the class is 24, let us find how many students there are in total in the class.

Girls Boys
3   :   2
Total Students ?

Ratio of girls to boys = 3 : 2

Number of parts of girls in the class = 3

Number of girls = 24

Since the number of students in 3 parts is 24,

the number of students in one part $= \dfrac{24}{3} = 8$

Total number of parts $= 3 + 2 = 5$

Total number of students $= 8 \times 5$
$= 40$

➢ **When the amount related to one term in a ratio is given, determining the other amounts**

The ratio in which a sum of money was divided between Siyam and Kandan is 2 : 3. If Siyam received Rs. 300, let us find how much money Kandan received.

$2 \rightarrow 300,$
$3 \rightarrow ?$

Ratio in which the money was divided between Siyam and Kandan $\Big\} = 2 : 3$

Parts Siyam received $= 2$

Money Siyam received $=$ Rs.300

Since two parts is worth Rs. 300,

the value of one part $=$ Rs. $300 \div 2$
$=$ Rs. 150

Parts Kandan received $= 3$

Money Kandan received $=$ Rs. 150×3
$=$ Rs. 450

➢ **Do all the exercises in you text book 21.3 and 21.4**