



## RATIO



The ratio of the number of pink roses to the total number of roses sold at a florist was  $5 : 7$  at first.

The florist brings in 18 more pink roses and the ratio of the number of pink roses to the total number of roses then became  $2 : 1$ .

How many roses were there altogether in the end?



## ANSWER TO

## RATIO

At first, we have

$$\text{Pink roses : All roses} = 5 : 7 \quad \text{---- (1)}$$

In the end, we have

$$\begin{aligned} \text{Pink roses : All roses} &= 2 : 1 \\ &= 2 \times 7 : 1 \times 7 \\ &= 14 : 7 \quad \text{---- (2)} \end{aligned}$$

Comparing (1) and (2),

$$14 - 5 = 9 \text{ units}$$

9 units  $\rightarrow$  18 pink roses

$$1 \text{ unit} \rightarrow 18 \div 9 = 2 \text{ pink roses}$$

$$14 + 7 = 21 \text{ units} \rightarrow 2 \times 21 = 42 \text{ roses altogether}$$

