

In an examination, a student requires 40% of the total marks to pass. If Rupa gets 185 marks and fails by 15 marks, find the total marks.

ANSWER:

Let x be the total marks.

According to the question, we have:

$$40\% \text{ of } x = 185 + 15$$

$$\Rightarrow \frac{40x}{100} = 200$$

$$\Rightarrow 40x = 200 \times 100$$

$$\Rightarrow 40x = 20000$$

$$\Rightarrow x = 500$$

$$\therefore \text{Total marks} = 500$$