

1. let required number = x
according to condition

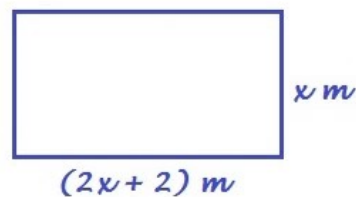
$$(x - \frac{1}{2}) \frac{1}{2} = \frac{1}{8}$$

$$\Rightarrow x - 2 = \frac{\cancel{2}^1}{\cancel{8}_4}$$

$$\Rightarrow x = 2 + \frac{1}{4}$$

$$\Rightarrow x = \frac{9}{4}$$

2. let breadth = x m
length = $(2x + 2)$ m



Perimeter of rectangle = 154 m

$$2(l + b) = 154$$

$$2(2x + 2 + x) = 154$$

$$\Rightarrow 3x + 2 = \frac{\cancel{154}}{\cancel{2}} //$$

$$\Rightarrow 3x = 77 - 2$$

$$\Rightarrow 3x = 75$$

$$\Rightarrow x = \frac{\cancel{75}^{25}}{\cancel{3}}$$

$$\Rightarrow x = 25$$

\therefore breadth = 25 m, length = 52 m