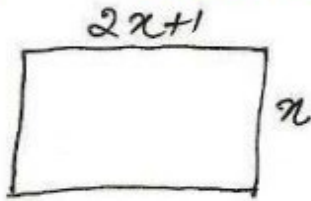


Ex 4.1**NCERT Solutions by Dev Anoop (Bathinda)**

② i

let breadth = x mlength = $(2x+1)$ marea of plot = 528 m^2

lb = 528

$$(2x+1)(x) = 528$$

$$\Rightarrow 2x^2 + x - 528 = 0$$

2(ii) let the integers be $x, x+1$

acc. to ques.

$$x(x+1) = 306$$

$$\Rightarrow x^2 + x - 306 = 0$$

③ let Rohan's present age = x yearsHis mother's age = $(x+26)$ years

acc to ques.

$$(x+3)(x+26+3) = 360$$

$$\Rightarrow (x+3)(x+29) = 360$$

$$\Rightarrow x^2 + 32x + 87 - 360 = 0$$

$$\Rightarrow x^2 + 32x - 273 = 0$$

2(iii) let actual speed = x km/hr

acc. to prob

$$\frac{480}{x-8} - \frac{480}{x} = 3$$

$$\Rightarrow \overset{160}{480} \left(\frac{1}{x-8} - \frac{1}{x} \right) = 3$$

$$\Rightarrow 160 \left(\frac{x - x + 8}{x^2 - 8x} \right) = 1$$

$$\Rightarrow x^2 - 8x = 160 \times 8$$

$$\Rightarrow x^2 - 8x - 1280 = 0$$

Ex 4.1**NCERT Solutions by Dev Anoop (Bathinda)**