

VIII - Ch 2 Linear Equations in one Variable Ex 2.4

NCERT Solutions by Dev Anoop (Bathinda)

⑦ let length of shirt cloth = $3x$ m
 length of trouser cloth = $2x$ m

$$\text{cost of shirt cloth} = 3x \times 50 \\ = \text{Rs } 150x$$

$$\text{cost of trouser material/cloth} \\ = 2x \times 90 \\ = \text{Rs } 180x$$

acc. to con.

$$150x + \frac{12}{100} \times 150x + 180x + \frac{10}{100} \times 180x \\ = 36600$$

$$\Rightarrow 168x + 198x = 36600$$

$$\Rightarrow 366x = 36600$$

$$\Rightarrow x = 100$$

$$\text{length of trouser material} \\ = 2 \times 100 \\ = 200 \text{ m}$$

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