

4. let c.P of 1 Pen = Rs  $x$

c.P of 1 Pencil box = Rs  $y$

acc to condition I

$$4x + 4y = 100$$

$$\Rightarrow x + y = 25 \dots \textcircled{I}$$

acc. to con. II

$$3x - y = 15$$

$$\Rightarrow y = 3x - 15 \dots \textcircled{II}$$

Subs. value of  $y$  in  $\textcircled{I}$

$$3x - 15 + x = 25$$

$$\Rightarrow 4x = 40$$

$$\Rightarrow x = 10$$

subs. value of  $y$  in  $\textcircled{II}$

$$y = 3 \times 10 - 15$$

$$= 15$$

$\therefore$  CP of 1 Pen = Rs 10

CP of 1 Pencil box = Rs 15