

102. let no. of Rs 500 notes = x
no. of Rs 1000 notes = $175 - x$
acc. to condition

$$500x + (175 - x)1000 = 100000$$
$$(\div 500) \quad x + 2(175 - x) = 200$$
$$\Rightarrow x + 350 - 2x = 200$$
$$\Rightarrow -x = -150$$
$$\Rightarrow x = 150$$

$\therefore$ no. of Rs 500 notes = 150
no. of Rs 1000 notes = $175 - 150$
 $= 25$

103. let no. of tickets worth Rs 3 = x
no. of tickets worth Rs 10 = $40 - x$
acc. to condition

$$3x + 10(40 - x) = 295$$
$$\Rightarrow 3x + 400 - 10x = 295$$
$$\Rightarrow -7x = 295 - 400$$
$$\Rightarrow x = \frac{-105}{-7}$$
$$\Rightarrow x = 15$$

$\therefore$ no of tickets worth Rs 3 = 15