Answer :

Let the numbers one rupee, fifty paise and twenty-five paise coins be $5x$, $8x$ and $4x$, respectively.

Total value of these coins $= \left(5x \times \frac{100}{100} + 8x \times \frac{50}{100} + 4x \times \frac{25}{100}\right)$

$\Rightarrow 5x + \frac{8x}{2} + \frac{4x}{4}$

$= \frac{20x + 16x + 4x}{4} = \frac{40x}{4} = 10x$

However, the total value is Rs 750.

$\therefore 750 = 10x$

$\Rightarrow x = 75$

Hence, number of one rupee coins $= 5 \times 75 = 375$

Number of fifty paise coins $= 8 \times 75 = 600$

Number of twenty-five paise coins $= 4 \times 75 = 300$

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Rs Aggarwal Maths Class 12 Solutions Answer