

Book For
Maharashtra State Road Transport Corporation (MSRTC)



MSRTC Driver Mathematics Sample Paper



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(1) A man has Rs. 480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has ?

[A] 45

[B] 60

[C] 75

[D] 90

Answer : [D]

Explanation:

Let number of notes of each denomination be x .

Then $x + 5x + 10x = 480$

$\Rightarrow 16x = 480$

$\therefore x = 30$.

Hence, total number of notes = $3x = 90$.

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(2) The price of 2 sarees and 4 shirts is Rs. 1600. With the same money one can buy 1 saree and 6 shirts. If one wants to buy 12 shirts, how much shall he have to pay ?

[A] Rs. 1200

[B] Rs. 2400

[C] Rs. 4800

[D] Cannot be determined

[E] None of these

Answer : [B]

Explanation:

Let the price of a saree and a shirt be Rs. x and Rs. y respectively.

Then, $2x + 4y = 1600$ (i)

and $x + 6y = 1600$ (ii)

Solving (i) and (ii) we get $x = 400$, $y = 200$.

\therefore Cost of 12 shirts = Rs. $(12 \times 200) = \text{Rs. } 2400$.

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(3) A sum of Rs. 1360 has been divided among A, B and C such that A gets $\frac{2}{3}$ of what B gets and B gets $\frac{1}{4}$ of what C gets. B's share is:

[A] Rs. 120

[B] Rs. 160

[C] Rs. 240

[D] Rs. 300

Answer : [C]

Explanation:

Let C's share = Rs. x

Then, B's share = Rs. $\frac{x}{4}$, A's share = Rs. $\left(\frac{2}{3} \times \frac{x}{4}\right) = \text{Rs. } \frac{x}{6}$

$\therefore \underline{x} + \underline{\frac{x}{4}} + \underline{\frac{x}{6}} = 1360$

