

DATE: 1 / 1 / 2025

Sec - II

M T W T F S

Q. no. 6

(A)

In an annual sale, Siama buys a fridge and a freezer. The sale offers 15% off everything and she pays total of 57,120. If the price of freezer before sale is 40,000. What was price of fridge before sale?

Solution:

Original price of freezer = 40,000

Original price of fridge = x

Discount offered on both items = 15%

$$\begin{aligned}\text{Discounted price} &= \text{Original price} \times (1 - \frac{15}{100}) \\ &= \text{original price} \times 1 - 0.15 \\ &= \text{original price} \times 0.85\end{aligned}$$

For freezer :

$$= 40,000 \times 0.85$$

$$= 34,000$$

For Fridge :

$$x \times 0.85 = 0.85x$$

Total discounted price :

$$34000 + 0.85x = 57,120$$

$$0.85x = 57,120 - 34000$$

$$0.85x = 23,120$$

$$x = \frac{23,120}{0.85}$$

$$x = 27,200$$

Thus, the original price of fridge before sale is 27,200.

(B)

Mr. Rasheed pays a deposit of 60,000, followed by 36 equal monthly payments. The total amount that he pays is 127% of basic price of 3,360,000. Calculate Rasheed's monthly payment.

$$\text{Basic price} = 3,360,000$$

$$\text{Total amount paid} = 127\% \text{ of } 3,360,000$$

$$\text{Deposit paid} = 60,000$$

Number of monthly payments = 36

Total amount paid = 127% of 3,360,000

$$= \frac{127}{100} \times 3,360,000$$

$$= 4,207,200$$

Monthly payment = $\frac{\text{remaining amount}}{\text{no. of months}}$

$$= \frac{4,207,200}{36}$$

$$= 116,866.67$$

write the final answer in the form of statement.

(c)
Divide Rs. 600 among A, B and C so that Rs. 40 more than $\frac{2}{5}$ of A's share, Rs. 20 more than $\frac{2}{7}$ of B's share and

Rs. 10 more than $\frac{9}{17}$ of C's share may be equal.

Solution:-

A's share as x

B's share as y

C's share as z

$$x + y + z = 600$$

Rs 40 more than $\frac{2}{5}$ of A's share is equal to common value

$$\frac{2}{5}x + 40 = K$$

Rs 20 more than $\frac{2}{7}$ of B's share is equal to same value:

$$\frac{2}{7}y + 20 = K$$

Rs. 10 more than $\frac{9}{17}$ of C's share is equal to same value:

$$\frac{9}{17}z + 10 = K$$

$$\frac{2}{5}x + 40 = K$$

$$\frac{2}{5}x = K - 40$$

$$x = \frac{(K - 40) \cdot 5}{2}$$

$$\frac{2}{7}y + 20 = K$$

$$\frac{2}{7}y = K - 20$$

$$y = \frac{(K - 20) \cdot 7}{2}$$

$$\frac{9}{17}z + 10 = K$$

$$\frac{9}{17}z = K - 10$$

$$z = \frac{(K - 10) \cdot 17}{9}$$

$$x + y + z = 600$$

$$\left(\frac{5}{2}\right)(K-40) + \frac{7}{2}(K-20) + \frac{17}{9}(K-10) = 600$$

~~please don't put it as 600~~

Taking LCM 18,

$$\cancel{\left(\frac{5}{2}\right)(K-40)} + \cancel{\frac{7}{2}(K-20)} + \cancel{\frac{17}{9}(K-10)} = 600$$

~~multiplying by 18 on both sides;~~

$$\cancel{18 \times \left(\frac{5}{2}\right)(K-40)} + \cancel{18 \times \frac{7}{2}(K-20)} + \cancel{18 \times \frac{17}{9}(K-10)} = 600 \times 18$$

$$\cancel{5(K-40)} + \cancel{7(K-20)} + \cancel{17(K-10)} = 10800$$

$$\frac{9 \times 5(K-40)}{18} + \frac{9 \times 7(K-20)}{18} + \frac{17 \times 2(K-10)}{18} = 600$$

$$\frac{45(K-40)}{18} + \frac{63(K-20)}{18} + \frac{34(K-10)}{18} = 600$$

$$\frac{1}{18} \{ 45(K-40) + 63(K-20) + 34(K-10) \} = 600$$

multiplying by 18 on both sides;

$$18 \times \frac{1}{18} \{ 45(K-40) + 63(K-20) + 34(K-10) \} = 600 \times 18$$

$$45(K-40) + 63(K-20) + 34(K-10) = 10800$$

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$$45K - 1800 + 363K - 2260 + 3K - 340 = 10800$$

$$15K + 363K + 34K = 10800 + 1800 + 2260 + 340$$

$$412K = 14200$$

$$K = \frac{14200}{412}$$

$$K = 34.2$$

$$K = 100$$

$$K = 100$$

Compute x, y, z;

$$x = \frac{5}{2} (K - 40) = \frac{5}{2} (100 - 40)$$

$$x = \frac{5}{2} (60) = 150$$

$$y = \frac{7}{2} (K - 20) = \frac{7}{2} (100 - 20)$$

$$y = \frac{7}{2} (80) = 280$$

$$z = \frac{17}{9} (K - 10) = \frac{17}{9} (100 - 10)$$

$$z = \frac{17}{9} (90) = 17 \times 10 = 170$$

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(10)

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Find out correct words
from jumbled spellings given
below;

(i) TEANAIRM

MARINATE

(ii) VAGINACEXETRA

EXTRAVAGANCE

(iii) VADIELTIONC

VALLEDICTION

(iv) PKUNYBAR TC

BANKRUPTCY

(v) TAE SROSNC

ANCESTORS