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Date Interpretation Info Chart Questions Quiz for IBPS PO Pre, SBI PO Pre, IBPS Clerk Mains, RRB Scale I Pre, IBPS SO Pre, Canara Bank, Syndicate Bank and SBI Clerk Mains Exams.

DI Info Chart Quiz 18

Directions: Study the given information carefully to answer the questions.

A person went to market with Rs. 750. He purchased x kg apples, 4 kg bananas and 6 kg mangoes. After purchasing, he was left with Rs. 50 in his pocket. When he calculated, he found that the amount spent to purchase apples was equal to the amount spent to purchase mangoes, the amount spent to purchase bananas was one third of the amount spent to purchase apples and the total quantity of apples purchased by him was half of the total quantity of bananas and mangoes together purchased by him.

1. What is the ratio of price per kg of apples to price per kg of banana?

A. 4 : 1 B. 5 : 3 C. 12 : 5 D. 24 : 13 E. None of these

2. How much money did he spend to purchase mangoes?

A. Rs. 240 B. Rs. 300 C. Rs. 324 D. Rs. 306 E. None of these

3. If he purchases two kg mangoes, 1 kg apples, and 2 kg banana then how much money will he left with in his pocket?

A. Rs. 210 B. Rs. 580 C. Rs. 540 D. Rs. 520 E. None of these

4. How many kg of apples did he purchase?

A. 5 B. 4 C. 6 D. 3 E. None of these

5. If he purchases less quantity (in kg) of mangoes and the quantity of apples and bananas purchased remains same then he was left with 33.33% of the total amount. How many kg of total fruits did he purchase?

A. 10 Kg B. 11 Kg C. 9 Kg D. 12 Kg E. None of these

Correct Answers:

1	2	3	4	5
C	B	C	A	B

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COMMON EXPLANATION :

The total money spent = Rs. (750 – 50) = Rs. 700

Let the price of apples per kg = Rs. a, price of banana per kg = Rs. b, price of mangoes per kg = Rs. c

Then, according to the question, $x \times a + 4 \times b + 6 \times c = 700$

The amount spent to purchase apples was equal to the amount spent to purchase mangoes

then, $xa = 6c$, $a : c = 6 : x$

the total quantity of apples purchased by him was half of the total quantity of bananas and mangoes purchased by him

$$x = \frac{6 + 4}{2} = \frac{10}{2} = 5 \text{ kg}$$

Therefore, a : c = 6 : 5 ..... (i)

The amount spent to purchase bananas was one third of the amount spent to purchase apples

$$4b = \frac{1}{3} \times xa = \frac{1}{3} \times 6c$$

$4b = 2c$

b : c = 1 : 2 ..... (ii)

a : b : c = 60 : 25 : 50

Let the price per kg of apple = Rs. 60p, then price of banana per kg = Rs. 25p and price of mangoes per kg = Rs. 50p

$x \times a + 4 \times b + 6 \times c = 700$

$5a + 4b + 6c = 700$

$5 \times 60p + 4 \times 25p + 6 \times 50p = 700$

$300p + 100p + 300p = 700p = 700$

$p = 1$

It means, the price per kg of apple = Rs. 60p = Rs. 60
Price per kg of banana = Rs. 25p = Rs. 25 andprice per kg of mangoes = Rs. 50p = Rs. 50

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Explanations:

1. Following common explanation, we get
The required ratio = 60 : 25 = 12 : 5
Hence, option C is correct.

2. Following common explanation, we get
The total he spends to purchase mangoes = 6c = 6 × 50 = 300
Hence, option B is correct.

3. Following common explanation, we get

The price of two kg mangoes, 1 kg apples, and 2 kg banana = 2 × 50 + 1 × 60 + 2 × 25 = 100 + 60 + 50 = 210
The required difference = 750 – 210 = 540
Hence, option C is correct.

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4. Following common explanation, we get
x = 5 therefore, 5 kg of apple he purchased
Hence, option A is correct.

5. Following common explanation, we get
33.33% of 750 = Rs. 250
It means, he spent Rs. (750 – 250) = Rs. 500
he purchases less quantity (in kg) of mangoes
the price of mangoes = Rs. 50 per kg
He spent Rs. 300 for buying apples and Rs. 100 for buying bananas. So he purchased mangoes worth Rs. 100
So he purchased 2 kg mangoes.
The total quantity of fruits he purchased = 5 + 4 + 2 = 11 kg
Hence, option B is correct.

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