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The Question Bank

DI Info Chart Questions for SBI Clerk Mains, IBPS Clerk Mains, LIC AAO, SBI PO Pre, RBI Assistant Pre, IBPS PO Pre and RRB Scale I Pre Exams.

DI Info Chart No 30

Directions: Study the following information carefully and answer the questions given beside.

A train started running from source station P to its destination station Q. There were three intermediate stations i.e. A, B and C between station P and station Q in the given order and the fare between any two consecutive stations was Rs. 5. The total number of passengers boarded at station P was 2280. The ratio of the number of passengers boarded and left the train at station A was 9 : 7, respectively and the total tickets sold for station Q at station B was 140 and the total number of Rs. 5 tickets sold at station B was 210. The ratio of the total number of passengers who left the train at station A and at station B was 7 : 6, respectively. The total amount earned by selling Rs. 5 tickets at station P was Rs. 2800 and the total number of passengers left the train at the station Q was 1740. The total amount earned by selling tickets at the station C was Rs. 1250.

1. How many passengers had left the train at station C?

A. 780 B. 820 C. 850 D. 940 E. 760

2. The ratio of the number of Rs. 5, Rs. 10, Rs. 15 and Rs. 20 tickets sold at the station P was 14: 6: 8: 29, respectively. Find the number of Rs. 5 tickets sold at the station A.

A. 228 B. 270 C. 240 D. 300 E. 264

3. How many passengers were on the train between station B and station C?

A. 2190 B. 2580 C. 2640 D. 2310 E. 2420

4. The per person average weight of the passengers travelling in the train from station A to station B was 35 kg and the resultant weight of the train (including the passengers) was 200 ton then find the weight of the train only. (1 ton = 1000 kg)

A. 114.6 ton B. 118.4 ton C. 115.2 ton D. 116.8 ton E. 124.2 ton

5. Find the total amount collected at the station B on selling all the tickets.

A. Rs. 2250 B. Rs. 2450 C. Rs. 2600 D. Rs. 3000 E. Rs. 2500

Correct Answers:

1	2	3	4	5
B	C	D	A	B

Common Explanations :

Let, the number of passengers boarded and left the train at station A be 9x and 7x, respectively

And, the total number of passengers left the train at station A and at station B be 7y and 6y, respectively

Since the total amount earned by selling Rs. 5 tickets at station P was Rs. 2800

So, the total number of passengers left the train at station A

$= \frac{2800}{5} = 560$

Therefore, $7x = 560$, $x = \frac{560}{7} = 80$

So, the number of passengers boarded the train at station A = $9x = 9 \times 80 = 720$

Also, $7y = 560$

$y = \frac{560}{7} = 80$

Therefore, the total number of passengers left the train at station B = $6y = 6 \times 80 = 480$

The total number of passengers boarded the train at station B = 210 + 140 = 350

And, the total number of passengers boarded the train at station C

$= \frac{1250}{5} = 250$

Let, the total number of passengers who left the train at station C be 'z'

So, 2310 + 250 – z = 1740

z = 2310 + 250 – 1740 = 820

	Boarded	Left	Number of passengers in the train
Station P	2280	–	2280
Station A	720	560	2440
Station B	350	480	2310
Station C	250	820	1740
Station Q	–	1740	–

Answers :

1. Following the common explanation, we get

So, the total number of passengers who had left the train at the station C = 820

Hence, option B is correct.

2. Following the common explanation, we get

Let, the number of Rs. 5 tickets, Rs. 10 tickets, Rs. 15 tickets, and Rs. 20 tickets sold at the station P be 14x, 6x, 8x, and 29x respectively

So, 14x + 6x + 8x + 29x = 2280

$57x = 2280 \; ; x = \frac{2280}{57} = 40$

Thus, total number of passengers who left the train at station B and had boarded at the station P = 6x = 240

So, total number of passengers who left the train at station B and had boarded at the station A i.e. purchased Rs. 5 ticket from station A = 480 – 240 = 240

Therefore, the total number of Rs. 5 tickets sold at the station A was 240.

Hence, option C is correct.

3. Following the common explanation, we get

So, the total number of passengers were on the train between station B and station C = 2310

Hence, option D is correct.

4. Following the common explanation, we get

Total weight of all passengers who were travelling from station A to station B = 2440 × 35 = 85400 kg

Weight of the train = (200000 – 85400) kg = 114600 kg = 114.6 ton

Hence, option A is correct.

5. Following the common explanation, we get

Given, total tickets sold for station Q at station B was 140 and the total number of Rs. 5 tickets sold at station B was 210.

Therefore, total amount collected = Rs. (140 × 10 + 210 × 5) = Rs. (1400 + 1050) = Rs. 2450

Hence, option B is correct.