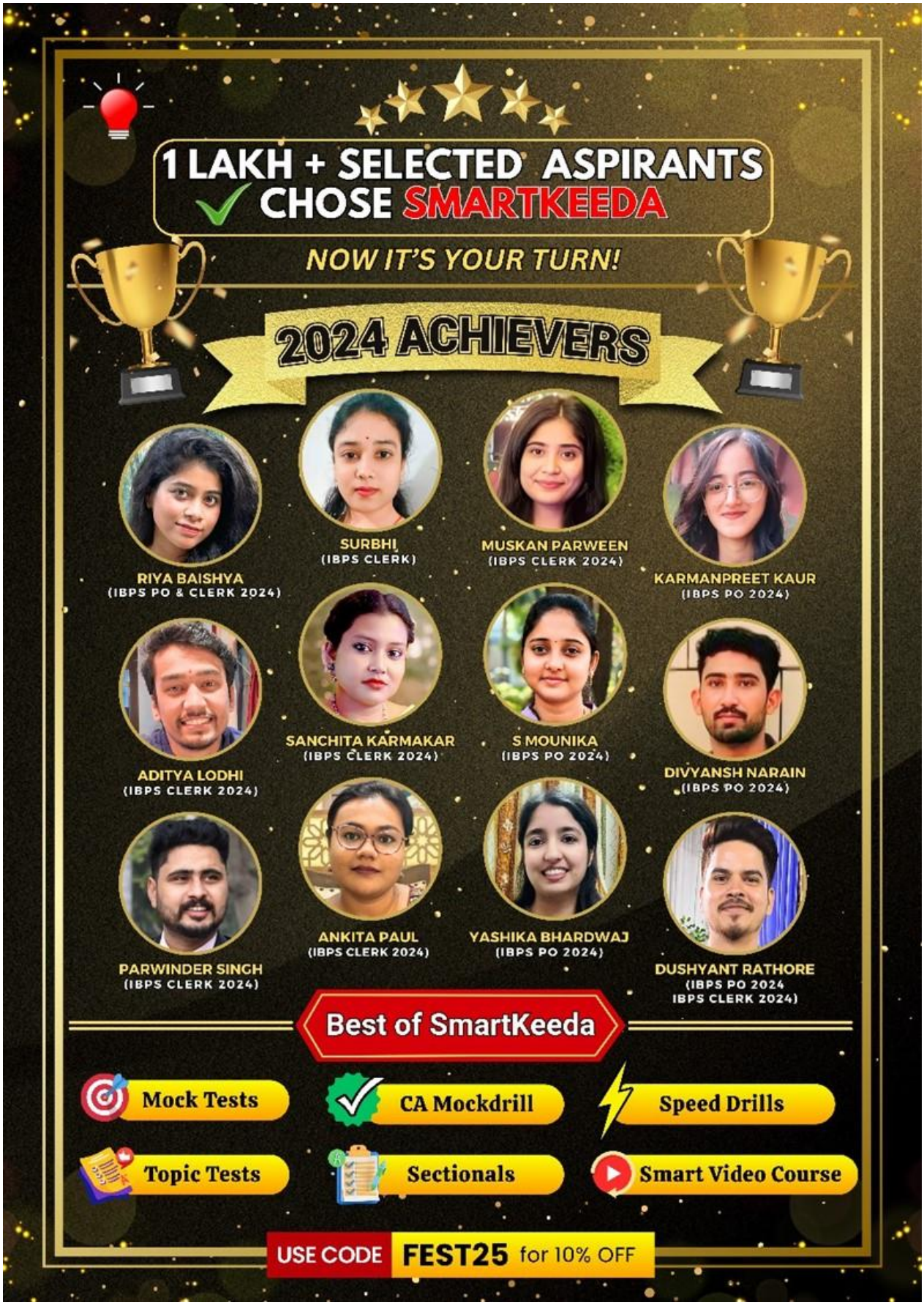
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Info Chart Questions for IBPS RRB SCALE-I (Mains) Exams – Bar Chart Quiz at Smartkeeda.

Info Chart Quiz 56

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

Information about number of people who were present on a railway station at different time of day namely 6 : 00, 10 : 00, 14 : 00, 18 : 00 and 22 : 00 hours.

The people were classified into three categories –

Arrived People: People for whom the railway station is the final destination,

People for Boarding: People who are present on the station to board a train to go somewhere,

Travellers: People who are on train coming from somewhere and will go somewhere.

At 6:00, number of arrived people who were present was 40 less than the number of travellers and number of people for boarding was 15 less than double the number of arrived people.

At 10:00, number of arrived people are 25 more than the number of people for boarding at 6:00. There were 440 travellers at 10:00 which were ten less than the number of arrived people at 10:00.

Number of travellers at 10:00 was 83.33% more than the number of people for boarding at 10:00 hours.

At 14:00, average number of people in the three categories was 480. Number of arrived people at 14:00 was 33.33% more than the average number of people in the three categories. Number of travellers at 14:00 hours was 90 more than the number of people for boarding at 14:00 hours.

At 18:00, ratio of number of people for boarding to number of travellers is 16 : 9. Number of people arrived was 20 more than the number of people who boarded and the average of all the three categories was 485.

At 22:00, number of people arrived was equal to number of travellers. Number of travellers was 12.5% more than the number of people who came for boarding.

Note: Don't consider the presence of people other than the three categories mentioned unless specified in the question.

1. There were some railway employees at the station at 6:00 hours. If the average of number of all the people of three categories and the employees was 236, find how many railway employees were present on the station.

A. 24 B. 31 C. 39 D. 48 E. 56

2. Of all the people who were present at 10:00 hours at the station, 452 were women. What percent of people present were men?

A. 25% B. 40% C. 45% D. 50% E. 60%

3. Average of number of all the arrived people for all the given times of the day was 450. Find the number of people who were travellers at 22:00 at the station.

A. 320 B. 360 C. 380 D. 400 E. None of these

4. At what time, the total number of people present at the station was highest?

A. 6:00 B. 10:00 C. 14:00 D. 18:00 E. Option C and D both

5. At 14:00, ratio of number of women to men arrived was 5:3, of number of women to men for boarding was 40:31, and ratio of women to men travellers was 40:49. Find the ratio of women to men in all the three categories together.

A. 2 : 3 B. 3 : 5 C. 5 : 4 D. 4 : 5 E. 3 : 2

Correct Answers:

1	2	3	4	5
C	E	B	D	C

Common Explanations:

Information about number of people who were present on a railway station at different time of day namely 6:00, 10:00, 14:00, 18:00, and 22:00 hours.

The people were classified into three categories –

Arrived People: People for whom the railway station is the final destination,

People for Boarding: People who are present on the station to board a train to go somewhere,

Travellers: People who are on train coming from somewhere and will go somewhere.

We make a table as follows.

	Arrived	People for Boarding	Travellers
6 : 00			
10 : 00			
14 : 00			
18 : 00			
22 : 00			

At 6:00, number of arrived people who were present was 40 less than the number of travellers and number of people for boarding was 15 less than double the number of arrived people.

Let the number of people arrived at 6:00 hours was ‘P’, then

	Arrived	People for Boarding	Travellers
6 : 00	P	(2P – 15)	P + 40
10 : 00			
14 : 00			
18 : 00			
22 : 00			

At 10:00, number of arrived people are 25 more than the number of people for boarding at 6:00. There were 440 travellers at 10:00 which were ten less than the number of arrived people at 10:00.

Number of travellers at 10:00 was 83.33% more than the number of people for boarding at 10:00 hours.

We get the following information,

	Arrived	People for Boarding	Travellers
6 : 00	P	(2P – 15)	P + 40
10 : 00	(2P – 15) + 25		440
14 : 00			
18 : 00			
22 : 00			

So, we get (2P – 15) + 25 = 440 + 10 → P = 220

Number of people for boarding + 83.33% of (Number of people for boarding) = 440

Number of people for boarding = 240

	Arrived	People for Boarding	Travellers
6 : 00	220	425	260
10 : 00	450	240	440
14 : 00			
18 : 00			
22 : 00			

Similarly, we find for each case:

At 14:00, average number of people in the three categories was 480. Number of arrived people at 14:00 was 33.33% more than the average number of people in the three categories. Number of travellers at 14:00 hours was 90 more than the number of people for boarding at 14:00 hours.

At 18:00, ratio of number of people for boarding to number of travellers is 16 : 9. Number of people arrived was 20 more than the number of people who boarded and the average of all the three categories was 485.

	Arrived	People for Boarding	Travellers
6 : 00	220	425	260
10 : 00	450	240	440
14 : 00	640	355	445
18 : 00	580	560	315
22 : 00			

At 22:00, number of people arrived was equal to number of travellers. Number of travellers was 12.5% more than the number of people who came for boarding.

Let the number of people for boarding = 100Q

Let the number of people arrived = number of travellers = 112.5Q

We get the following final table.

	Arrived	People for Boarding	Travellers
6 : 00	220	425	260
10 : 00	450	240	440
14 : 00	640	355	445
18 : 00	580	560	315
22 : 00	112.5Q	100Q	112.5Q

1.

From common explanation, we have

Let there were N employees, then

$$\frac{N + 220 + 425 + 260}{4} = 236 \rightarrow N = 39$$

Hence, option C is correct.

2.

From common explanation, we have

Total number of people = 450 + 240 + 440 = 1130

Number of men = 1130 – 452 = 678

Percent = $\frac{678}{1130} \times 100 = 60\%$

Hence, option E is correct.

3.

From common explanation, we have

We have

$$\frac{220 + 450 + 640 + 580 + 112.5Q}{5} = 450 \rightarrow 112.5Q = 360$$

Number of travellers = 112.5Q = 360

Hence, option B is correct.

4.

Following the common explanation, we have

We add up the first digit to eliminate less likely option(s).

6:00 → 2 + 4 + 2 = 8

10:00 → 4 + 2 + 4 = 10

14:00 → 6 + 3 + 4 = 13 1

8:00 → 5 + 5 + 3 = 13

Option A and B cannot be true.

We add up the numbers for the time at 14:00 and 18:00 which is 1440 and 1455 respectively. So at 18:00 hours the number of people was highest.

Hence, option D is correct.

5.

From common explanation, we have

Number of women arrived = $\frac{5}{5+3} \times 640 = 400$

Number of men arrived = 240

Number of women for boarding = $\frac{40}{40+31} \times 355 = 200$

Number of men for boarding = 155

Number of women travellers = $\frac{40}{40+49} \times 445 = 200$

Number of men travellers = 245

Total number of women = 400 + 200 + 200 = 800

Total number of men = 240 + 155 + 245 = 640

Ratio = 5 : 4

Hence, option C is correct.