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DI Info Chart Questions for SBI Clerk Pre, IBPS Clerk Pre, LIC Assistant Pre and RRB Assistant Pre Exams.

DI Info Chart No 44

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

Total population of Sayadri colony is 8000 and there are three blocks i.e., P, Q and R in it. Ratio of population of these three blocks (P : Q : R) is 8 : 5 : 3. Number of males in block P is 1900 more than that of females in block R. The ratio of number of females in block P to that of males in block R is 5 : 3. Number of females in block Q is 30% of the number of males in block P.

1. Find the average of the number of males in block P and Q together is how much more than the number of females in block P?

A. 650 B. 625 C. 675 D. 610 E. 605

2. 60% and 88% of females of block P and Q respectively are working, then find non-working females of block P is how much percent less than that working females of block Q?

A. $\frac{58}{11}\%$ B. $\frac{67}{11}\%$ C. $\frac{100}{11}\%$ D. $\frac{89}{11}\%$ E. $\frac{97}{11}\%$

3. Total female population of block P and R together is what percent of total population of these two blocks together?

A. 28.18% B. 30.18% C. 32.18% D. 38.18% E. 35.18%

4. Find the ratio of the total number of females in all blocks to that of the total number of males in all blocks?

A. $\frac{42}{89}$ B. $\frac{47}{139}$ C. $\frac{39}{55}$ D. $\frac{48}{101}$ E. $\frac{57}{103}$

5. The average of male population of block Q and R is how much more than the average of female population of these two blocks?

A. 650 B. 600 C. 550 D. 500 E. 450

Correct Answers:

1	2	3	4	5
B	C	D	E	A

Common explanations :

Let the number of males in block R be 3x, the number of females in block P will be 5x.

Ratio of the population in three blocks P : Q : R = 8 : 5 : 3

Population in P = $\frac{8 \times 8000}{16}$ = 4000

Population in Q = $\frac{5 \times 8000}{16}$ = 2500

Population in R = $\frac{3 \times 8000}{16}$ = 1500

Number of males in block P is 1900 more than that of females in block R.

The given information can be tabulated as:

P(4000)		Q(2500)		R(1500)	
Males	Females	Males	Females	Males	Females
1500 – 3x + 1900	5x		30 {1500 – 3x + 1900}/100	3x	1500 – 3x

The total population in block P = 4000

(1500 – 3x + 1900) + 5x = 4000

3400 + 2x = 4000

x = 300

Now the table will be –

P(4000)		Q(2500)		R(1500)	
Males	Females	Males	Females	Males	Females
2500	1500	1750	750	900	600

Answers :

1. Following the common explanation, we get

Males in P = 2500, males in Q = 1750

$$\text{Average} = \frac{2500 + 1750}{2} = 2125$$

Females in P = 1500

Required difference = 2125 – 1500 = 625

Hence, option B is correct.

2. Following the common explanation, we get

Females in P = 1500, working females in P = 60% of 1500, non-working females in P = 40% of 1500 = 600

Females in Q = 750, working females in Q = 88% of 750 = 660

$$\text{Reqd. \%} = \frac{(660 - 600) \times 100}{660} = \frac{100}{11}\%$$

Hence, option C is correct.

3. Following the common explanation, we get

Females in P and R = 1500 + 600 = 2100

Total population of P and R = 4000 + 1500 = 5500

$$\text{Reqd. \%} = \frac{2100 \times 100}{5500} = 38.18\%$$

Hence, option D is correct.

4. Following the common explanation, we get

Total number of females in all blocks = 1500 + 750 + 600 = 2850

Total number of males in all blocks = 2500 + 1750 + 900 = 5150

Reqd. ratio = $\frac{2850}{5150} = \frac{57}{103}$

Hence, option E is correct.

5. Following the common explanation, we get

Males in Q = 1750

Males in R = 900

Average = $\frac{1750 + 900}{2} = 1325$

Females in Q = 750

Females in R = 600

Average = $\frac{750 + 600}{2} = 675$

Required difference = 1325 – 675 = 650

Hence, option A is correct.