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

DI Info Chart No 47

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

In a dance class there are a total of 538 students who take admission to learn Salsa and Hip-hop dance. Each student learns single dance form only. Boys who learn Salsa dance is 70% of girls who learn Salsa dance. Girls who learn Hip-hop is 20 more than boys who learn Hip-hop dance. Girls who learn Salsa dance is same as Boys who learn Hip-hop dance.

- 1. What is the difference between number of boys and girls who took admission to learn Salsa dance?**
A. 34 B. 42 C. 56 D. 66 E. 28
- 2. How many students took admission in Hip-hop dance?**
A. 240 B. 320 C. 300 D. 480 E. 170
- 3. The number of boys who took admission in Salsa is what percent of the total number of students who took admission in Hip-hop dance?**
A. 32.66% B. 36.66% C. 34.66% D. 33.66% E. 35.66%
- 4. If 100 new students took admission in Salsa dance, then how many new boys took admission in Salsa, so that the ratio of boys to girls in Salsa becomes 89 : 80?**
A. 89 B. 70 C. 98 D. 80 E. 90
- 5. If the number of girls in the Hip-hop is increased by 10% then by what percent the number of girls in Salsa should be decreased so that the total number of students i.e., 538 remains same?**
A. 15.24% B. 18.33% C. 13.34% D. 17.43% E. 11.43%

Correct Answers:

1	2	3	4	5
B	C	A	D	E

Common explanation :

In Salsa: let the number of girls be $10x$, number of boys will be $7x$.

In Hip-hop: number of boys is $10x$, number of girls will be $10x + 20$.

So,

$$37x + 20 = 538$$

$$x = \frac{518}{37}$$

$$x = 14$$



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Answers :

1. Following the common explanation, we get

$$\text{Number of girls who took admission in Salsa} = 10x = 140$$

$$\text{Number of boys who took admission in Salsa} = 7x = 98$$

$$\text{Required difference} = 140 - 98 = 42$$

Hence, option B is correct.

2. Following the common explanation, we get

$$\text{Number of boys who took admission in Hip-hop dance} = 10x = 140$$

$$\text{Number of girls who took admission in Hip-hop dance} = 10x + 20 = 160$$

$$\text{Total number of students who took admission in Hip-hop dance} = 140 + 160 = 300$$

Hence, option C is correct.

3. Following the common explanation, we get

$$\text{Number of boys who admission part in Salsa} = 98$$

$$\text{Total number of students who took admission in Hip-hop dance} = 140 + 160 = 300$$

$$\text{Reqd. \%} = \frac{98 \times 100}{300} = 32.66\%$$

Hence, option A is correct.

4. Following the common explanation, we get

100 new students took admission in Salsa dance, let y students took admission are boys and $100-y$ are girls.

$$\frac{98 + y}{140 + 100 - y} = \frac{89}{80}$$

$$98 \times 80 + 80y = 89 \times 240 - 89y$$

$$169y = 13520$$

$$y = 80$$

Hence, option D is correct.

5. Following the common explanation, we get

Number of girls in Hip-hop is increased by 10% i.e., $160 (1.1) = 176$

So, extra $176 - 160 = 16$ girls are increased.

Since, the total 538 remains same, so 16 girls should be removed from girls of Salsa dance.

So, 16 girls should be removed from 140 girls

Reqd. % = $(16/140) \times 100 = 11.43\%$

Hence, option E is correct.



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