

Clarification – FRC #14 - RankForge 2027 Test 11

There are no changes in the paper. Clarification is provided for Q.38, Q.56 and Q.59

Q.38) A doubt was raised whether pair 1 is correctly matched or not.

Exp) **The pair is correctly matched.** The autonomous state of Hyderabad was founded in 1724 by **Kilich Khan**, who is more popularly known in history by his titles Nizam-ul-Mulk and Asaf Jah.

Q.56) A doubt was raised regarding the sufficiency of the data given in the question.

Exp) The data given in the question is sufficient to answer the question. Because the question asks for the minimum and maximum possible number of members who play both sports, the number of people playing neither sport is treated as a variable that adjusts to create these boundary scenarios.

To find the overlap between 90 cricket players and 110 football players in a 150-member club, we look at two extreme scenarios:

- Minimum overlap: If every single one of the 150 members plays at least one sport, adding the two groups ($90 + 110 = 200$) creates an excess of 50. This means at least 50 people must play both.
- Maximum overlap: The overlap cannot be larger than the smaller group. Since only 90 people play cricket, at most 90 people can play both.

The ratio of minimum to maximum overlap is 50:90, which simplifies to **5:9**.

Q.59) A doubt was raised regarding whether answer given is correct or not.

Exp) The answer remains **a**.

We can divide the attendees into two non-overlapping groups: those watching Mysteries or Thrillers, and those watching Sci-Fi only (s).

Using the given data, the first group is:

$$85 + 70 - 20 = 135 \text{ people}$$

This means the total attendees (T) is:

$$T = 135 + s$$

Statement-1 says 60 people watched Sci-Fi. Because some of these 60 might also watch Thrillers, we cannot isolate the "Sci-Fi only" group (s). Thus, it is **insufficient**.

Statement-2 states $T = 4s$. We can write the equation:

$$4s = 135 + s \Rightarrow 3s = 135 \Rightarrow s = 45$$

This solves $T = 180$, making it sufficient.

Since only Statement-2 works alone, the correct option is a.