

1) In a survey of 120 students, it was found that:

- 50 play Cricket (C),
- 60 play Football (F),
- 40 play Hockey (H),
- 20 play both Cricket and Football,
- 15 play both Football and Hockey,
- 10 play both Cricket and Hockey,
- 5 play all three games.

How many students play at least one game?

- A) 95
- B) 100
- C) 110
- D) 105

Answer: C) 110

2) Out of 200 employees in a company:

- 120 know English (E),
- 80 know French (F),
- 70 know German (G),
- 50 know both English and French,
- 30 know both French and German,
- 40 know both English and German,
- 20 know all three languages.

How many employees know exactly one language?

- A) 50
- B) 70
- C) 90
- D) 100

Answer: C) 90

3) In a school of 300 students:

- 180 like Mathematics (M),
- 150 like Science (S),
- 120 like English (E),
- 100 like both Mathematics and Science,
- 80 like both Science and English,
- 70 like both Mathematics and English,
- 50 like all three subjects.

How many students like none of the three subjects?

- A) 20
- B) 30
- C) 40
- D) 50

Answer: D) 50

4) In a city survey of 400 households:

- 220 own a Car (C),
- 180 own a Bike (B),
- 160 own a Scooter (S),
- 100 own both Car and Bike,
- 80 own both Bike and Scooter,
- 70 own both Car and Scooter,
- 40 own all three.

How many households own exactly two vehicles?

- A) 110
- B) 120
- C) 130
- D) 140

Answer: C) 130

5) In an institute of 500 students:

- 300 enrolled in Data Science (D),
- 250 enrolled in Artificial Intelligence (A),
- 200 enrolled in Machine Learning (M),
- 150 enrolled in both Data Science & AI,
- 120 enrolled in both AI & ML,
- 100 enrolled in both DS & ML,
- 80 enrolled in all three.

How many students enrolled in at least two courses?

- A) 250
- B) 270
- C) 290
- D) 300

Answer: C) 290