





Banking

WB Police

WB Civil Services

Other Competitive Exams

Date: 16th Dec 2023

Special Question - Quantitative Aptitude

English

Directions 1 - 5: This set of information describes a football tournament between teams (D, E, and F). Each team played two matches. The scoring pattern of the tournament is as follows:

- A team gets 2 points for scoring a goal against the opponent team.
- A team gets 3 points for scoring a goal against the opponent team from outside the penalty box.
- There is a penalty of 1 point if a team concedes a goal.
- Only three players from each team scored the goals.
- D E Match: E is the winner of this match. Total points scored by E in this match is 4. Also, team D scored 2 goals and none of the players scored a goal from the outside area.
- D F Match: F scored 0 points in the match. Only one player from team D scored a goal from outside area. D scored 4 points in this match.
- E F Match: E gets 6 points from match. Team F scored I goal more than Team E. One player from team E scored a goal from outside area but none from team F.
- Q:1 In D E match, find the points scored by team E are what percent of points scored by both teams by only scoring goals (without the deducted points).
- **1.** 40%
- 2.50%
- 3.10%
- **5**. 75%
- Q:2 In D F match, find the total number of points scored by both teams by only scoring goals (without the deducted points).
- **1.** 5
- **2**. 7
- **3**. 4
- **5**. 6
- Q:3 In E F match, the points scored by team E is what percent of the points scored by team F?
- 1.75%
- 2.50%
- **3.** 33%
- **5.** 80%
- Q:4 In E F match, find the average of the points scored by both teams by only scoring

- goals (without the deducted points).
- 1.16
- **2**. 12
- 3. 11
- **5.** 14
- Q:5 In the matches between D F and E F, find the number of points obtained by team F by scoring goals from inside the box.
- **1.** 16
- **2.** 14
- **3**. 2
- **5**. 8

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Answer Key **1**. (1) **2**. (2) **3**. (1) **4**. (4) **5**. (1)

Answers and Solutions

Q:1 The correct answer is option 1 i.e. 2 Calculations:

Points scored by team E = 4 points

Goals scored by team D = 2 (4 points)

Hence, points scored by team E without being penalised = 4 + 2 = 6 points

Hence, to score 6 points team E must have scored 3 inside the box goals as no player scored a goal from outside the box

We have the following table:

Team	Points scored	Inside the box goals	goals	Points deducted (for conceding)	Points scored(without deducted points)
D	1	2	-	3	4
E	4	3		2	6

Required percent = $4/(4 + 6) \times 100 = 4/10 \times 100 =$ 40%

Q:2 The correct answer is option 2 i.e. 7 Calculations:

Points scored by team D = 4

Points scored by team F = 0

We can create the following table;

Team	Points scored		Outside the box goals		Points scored(without deducted points)
D	4	1	1	1	5
F	0	1	-	2	2

Hence, the total number of points scored by both teams by only scoring goals (without the deducted points)

 \Rightarrow 5 + 2 = 7

Q:3 The correct answer is option 1 i.e. 75%

Calculations:

Total points scored by team E = 6 points Number of goals scored by team E = x

Number of goals scored by team F = x + 1

Goal scored from outside the box = 1(3 points)

Now, the number of goals scored from inside the box will be assumed such that:

Total points scored by team E = Points for Number of goals scored from outisde the box + Points for goals scored from inside the box - (Penalty for conceding goals)

By hit and trial method, We take number of goals scored from inside the box = 5

$$\Rightarrow 6 = 3 + (2 \times 5) - 7$$

$$\Rightarrow$$
 6 = 6

Hence, the number of goals scored from inside the box = 5

Total goals scored by team E = 6

Hence, total number of goals scored by team F = 7. We have the following table;

Team	Points scored	Inside the box goals	goals	deducted (for	Points scored(without deducted points)
E	6	5	1	7	13
F	8	7	-	6	14

Hence, points scored by team E = 6

Point scored by team F = 8

Required percentage = $(6/8) \times 100 = 75\%$

Q:4 The correct answer is option 4 i.e. 13.5 Calculations:

Total points scored by team E = 6 points

Number of goals scored by team E = x

Number of goals scored by team F = x + 1Goal scored from outside the box = 1(3 points)

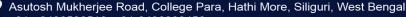
Now, the number of goals scored from inside the box will be assumed such that;

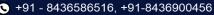
Total points scored by team E = Points for Number of goals scored from outisde the box + Points for goals scored from inside the box - (Penalty for conceding goals)

By hit and trial method, We take number of goals scored from inside the box = 5

$$\Rightarrow$$
 6 = 3 + (2 × 5) - 7









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 \Rightarrow 6 = 6

Hence, the number of goals scored from inside the box = 5

Total goals scored by team E = 6

Hence, total number of goals scored by team F =

We have the following table;

Team	اممسمما	ايمما	goals	deducted	Points scored(without deducted points)
Е	6	5	1	7	13
F	8	7	-	6	14

Hence, points scored by both teams by only scoring goals (without the deducted points) = 13 + 14 = 27

Required average = 27/2 = 13.5

Q:5 The correct answer is option 1 i.e. 16 Calculations:

In D - F match;

Points scored by team D = 4

Points scored by team F = 0

We can create the following table;

	<u> </u>					
Team	Points scored	Inside the box goals	goals	Points deducted (for conceding)	Points scored(without deducted points)	
D	4	1	1	1	5	
F	0	1	-	2	2	

In E - F match;

Total points scored by team E = 6 points

Number of goals scored by team E = x

Number of goals scored by team F = x + 1

Goal scored from outside the box = 1(3 points)

Now, the number of goals scored from inside the box will be assumed such that;

Total points scored by team E = Points for Number of goals scored from outside the box + Points for goals scored from inside the box - (Penalty for conceding goals)

By hit and trial method, We take number of goals scored from inside the box = 5

\Rightarrow 6 = 3 +	(2×5)) - 7
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$$\Rightarrow$$
 6 = 6

Hence, the number of goals scored from inside the

Total goals scored by team E = 6

Hence, total number of goals scored by team F = 7.

We have the following table:

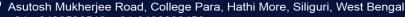
Team	Points scored	Inside the box goals	goals	Points deducted (for conceding)	Points scored(without deducted points)
E	6	5	1	7	13
F	8	7	-	6	14

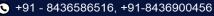
Hence total goals scored by team F from inside the box = 7 + 1 = 8

Points awarded for each inside the box goal = 2Hence, number of points obtained by team F by scoring goals from inside the box in both $matches = 2 \times 8$

⇒ 16









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