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Puzzle Test Questions for IBPS PO Pre, RRB Scale I Pre, SBI PO Pre, Syndicate Bank PO, Canara Bank PO, IBPS SO Pre, IBPS Clerk Mains and SBI Clerk Mains Exams.

Set No 145

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

Five players namely Dhawan, Rohit, Virat, Rahane and Vijay scored different runs in 1st innings of test match versus Australia.

No two players scored same runs.

The runs scored by Rohit and Dhawan together is same as the runs scored by Rahane and Vijay together.

Virat scored 40 runs more than Vijay but 30 runs less than Rohit.

Total runs scored in the 1st innings by five players are 600.

The run scored by Virat and Dhawan together is twice the runs scored by Vijay.

1.   What is the difference between the runs scored by Virat and Dhawan?

A. 10 Runs   B. 50 Runs   C. 70 Runs   D. 80 Runs   E. None of these

2.   What is the sum of runs scored by Rohit and Rahane?

A. 200 Runs   B. 250 Runs   C. 300 Runs   D. 310 Runs   E. None of these

3.   What is the average run scored by Virat, Vijay and Dhawan?

A. 110 Runs   B. 90 Runs   C. 100 Runs   D. 115 Runs   E. None of these

4.   Find the odd one out among the following.

A. Dhawan   B. Rohit   C. Virat   D. Rahane   E. Vijay

5.   If we arrange player scores in ascending order of their respective scores, which player scored third highest run?

A. Dhawan   B. Rohit   C. Virat   D. Rahane   E. Vijay

Correct Answers:

1	2	3	4	5
D	C	C	A	D

COMMON EXPLANATION:

References

Total runs scored in the 1st innings by five players are 600.

The runs scored by Rohit and Dhawan together is same as the runs scored by Rahane and Vijay together.

Virat scored 40 runs more than Vijay but 30 runs less than Rohit.

The run scored by Virat and Dhawan together is twice the runs scored by Vijay.

Inferences

From above statements,

Given Statements	Hints (Equations)
Total runs scored in the 1st innings by five players are 600.	Dhawan + Rohit + Virat + Rahane + Vijay = 600 ....(1)
The runs scored by Rohit and Dhawan together is same as the runs scored by Rahane and Vijay together	Rohit + Dhawan = Rahane + Vijay ....(2)
Virat scored 40 runs more than Vijay but 30 runs less than Rohit.	Virat = 40 + Vijay ....(3) Virat = Rohit-30 ....(4)
The run scored by Virat and Dhawan together is twice the runs scored by Vijay.	Virat + Dhawan = 2Vijay ....(5)

By using equation (2) we get

Rahane = (Rohit + Dhawan) – Vijay ……………………… (6)

Now substitute, equation 6 in equation 1, we get

Dhawan + Rohit + Virat + (Rohit + Dhawan) – ~~Vijay~~ + ~~Vijay~~ = 600
2Dhawan + 2Rohit + Virat = 600 …………. (7)

By using equation (4 & 5) we get

Rohit = Virat + 30 ………………… (8)

Dhawan = 2Vijay – Virat …………………. (9)

Now substitute equation 8 & 9 in equation 7

2 [2Vijay-Virat] + 2 [Virat + 30] + Virat = 600 …………. (10)

4Vijay-~~2Virat~~ + ~~2Virat~~ + 60 + Virat = 600

4Vijay + Virat = 600 -60

4Vijay + Virat = 540 ……………………. (11)

By using equation (3) we get

Vijay = Virat - 40 ………………….. (12)

Now substitute equation 12 in equation 11,

4 [Virat - 40] + Virat = 540
4Virat – 160 + Virat = 540
5Virat = 540 + 160
5Virat = 700
Virat = 700/5

Virat = 140………….(13)

Now by using equation (3), Virat = 40 + Vijay

140 = 40 + Vijay

Vijay = 140 – 40

Vijay = 100………….(14)

Now by using equation (4), Virat = Rohit-30

140 = Rohit-30

Rohit = 140 + 30

Rohit = 170……….(15)

Now by using equation (5), Virat + Dhawan = 2Vijay   & equation (13 & 14)

140 + Dhawan = 2*100

Dhawan = 200-140

Dhawan = 60……..(16)

Now by using Virat = 140, Vijay = 100, Rohit = 170 & Dhawan = 60 and substitute in equation 1

Dhawan + Rohit + Virat + Rahane + Vijay = 600 [equation 1]

60 + 170 + 140 + Rahane + 100 = 600

Rahane = 600 – 470

Rahane = 130

By using all values we get the completed table,

Players	Runs scored
Virat	140
Vijay	100
Rohit	170
Dhawan	60
Rahane	130
Total (1st innings)	600

Answers :

1. The following common explanation, we get **"80 Runs".**

Virat = 140 & Dhawan = 60, Difference = 140 – 60 = 80 Runs.

Hence, option D is correct.

2. The following common explanation, we get **"300 Runs".**

Rohit = 170 & Rahane = 130, Sum = 170 + 130 = 300 Runs

Hence, option C is correct.

3. The following common explanation, we get **"100 Runs".**

Virat = 140, Vijay = 100 & Dhawan = 60,

Sum = 140 + 100 + 60 = 300 Runs,

Average = 300 / 3 = 100 Runs.

Hence, option C is correct.

4. Following common explanation, we get " Dhawan ".

Except Dhawan score of all other players is in hundred's.

Hence, option A is correct.

5. Following common explanation, we get " Rahane " who scored 130 runs which is the third highest score among all.

Hence, option D is correct.