

# 75+ Arithmetic Reasoning Questions for SSC Exams

**75+ Arithmetic Reasoning Questions (English PDF)**

1.If 5 November 2019 was Tuesday, then what was the day of the week on 5 December 2011?

- A. Tuesday
- B. Sunday
- C. Monday
- D. Saturday

**Ans:** C

2.If 3rd January is Sunday, what date will be three days after the fourth Wednesday in the month?

- A. 30
- B. 27
- C. 26
- D. 23

**Ans:** A

3.At a college party five girls are sitting in a row. P is to the immediate left of M and to the immediate right of O. R is sitting to the right of N, but to the left of O. Who is sitting in the Middle ?

- A. O
- B. R
- C. P
- D. M

**Ans:** A

4.Sati is elder than Renu, Geeta is younger than Renu while Priya is elder than Sati. Who is the eldest?

- A. Priya
- B. Sati
- C. Renu
- D. Geeta

**Ans:** A

5.If Shankar 37 rank ahead of Kalyan in one test. The rank of Kalyan is 37<sup>th</sup> from the last. Total participant of that test is 94. What is Shankar's rank from start?

- A. 20
- B. 21
- C. 23
- D. 24

**Ans:** B

6.There are five friends Shailendra, Keshav, Madhav, Ashish and Rakesh. Shailendra is shorter than Keshav but taller than Rakesh. Madhav is the tallest. Ashish is a little shorter than Keshav and little taller than Shailendra. Who is the shortest ?

- A. Rakesh
- B. Shailendra
- C. Keshav
- D. Ashish

**Ans:** A

7.Seven friends P, Q, R, S, T, U and V, each has got different marks in the board examination. P scored higher than only U and R. R scored higher than U. Q scored higher than S but lesser than T. T has not scored the highest among all. How many persons scored between Q and R?

- A. 3
- B. 2
- C. 1
- D. 0

**Ans:** B



8. Each of the seven friends, Kirti, Siya, Amita, Preeti, Deepika, Jeet and Pari, has scored different marks in an exam. Pari has scored more than Kirti but less than Siya. Deepika has scored less than Preeti but more than Amita. Kirti has scored more than Preeti. Siya is not the highest scorer. Who among the following has scored more than Pari?

- A. Jeet
- B. Deepika
- C. Amita
- D. Preeti

**Ans: A**

9. In a row, a number of boys and girls are standing facing the same direction. Sayan is 7<sup>th</sup> to the left of his brother Ayan. Nita is 16<sup>th</sup> from the left end; at the same time, Nita is 8<sup>th</sup> to the right of Sayan. Ayan is 5<sup>th</sup> from the right end. How many boys and girls are there in total?

- A. 18
- B. 19
- C. 20
- D. 21

**Ans: B**

10. In a row of thirty-two girls, M is twelfth from the left end and there are seventeen girls between M and N. N is to the right of M. What is N's position from the right end of the row?

- A. 6
- B. 4
- C. 5
- D. 3

**Ans: D**

11. Among 5 boys, Vasant is taller than Manohar, but not as tall as Raju. Jayant is taller than Dutta but shorter than Manohar. Who is the tallest in the group?

- A. Manohar
- B. Vasanth
- C. Jayant
- D. Raju

**Ans: D**

12. Barun is taller than Sanjay. Bipul is taller than Barun. Krishna is also not as tall as Bipul but is taller than Barun. Who is the tallest?

- A. Barun
- B. Bipul
- C. Krishna
- D. Sanjay

**Ans: B**

13. M, N, O, P, Q are five friends. O is the fastest guy. P can run faster than N and Q. M can run faster than Q. N is slower than M. Who is the slowest?

- A. N
- B. Q
- C. either N or Q
- D. M

**Ans: C**

14. Sati is elder than Renu, Geeta is younger than Renu while Priya is elder than Sati. Who is the eldest?

- A. Priya
- B. Sati
- C. Renu
- D. Geeta

**Ans: A**



15. N is more intelligent than M. M is not as intelligent as Y. X is more intelligent than Y but not as good as N. Who is the most intelligent of all?

- A. N                                      B. M  
C. X                                      D. Y

**Ans:** A

16. Given below is a question followed by two statements I and II. Read both statements carefully to decide which one of them is sufficient to answer the question

Six people - K, M, N, P, Q and R are sitting around a circular table facing the centre.

Who sits second to the left of P?

(I) K sits to the immediate right of P. Only two people sit between P and Q. R sits second to the right of M.

(II) Only two people sit between N and M. Q is an immediate neighbour of M. Only one person sits between Q and K.

A. Data in statement II alone is sufficient to answer the question while data in statement I is not.

B. Data in statement I alone is sufficient to answer the question while data in statement II is not.

C. Data in statements I and II together are NOT sufficient to answer the question.

D. Data in statements I and II together are sufficient to answer the question.

**Ans:** B

17. A question is given, followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements is sufficient to answer the question. Read both the statements and select the appropriate answer.

**Question:** Four people, A, B, C and D, are sitting in a straight line, facing south. Who is sitting at the right end?

**Statements:**

(I) Only two people sit between B and D; A sits to the immediate left of B.

(II) Only one person sits between B and C; A sits to the immediate right of C.

A. Data in statement I alone is sufficient to answer the question while data in statement II is not

B. Data in statement II alone is sufficient to answer the question while data in statement I is not

C. Data in either statement I alone or statement II alone is sufficient to answer the question

D. Data in statements I and II together is sufficient to answer the question

**Ans:** A

18. A question is given, followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements is sufficient to answer the question. Read both the statements and select the appropriate answer.



Question: A, B, C and D are sitting around a circular table facing the centre. Who sits to the immediate right of A?

**Statements:**

(I) C sits to the immediate left of A; only one person sits between C and D.

(II) Only one person sits between A and B; C sits to the immediate right of B.

A. Data in statement I alone is sufficient to answer the question while data in statement II is not

B. Data in either statement I alone or statement II alone is sufficient to answer the question

C. Data in statements I and II together is sufficient to answer the question

D. Data in statement II alone is sufficient to answer the question while data in statement I is not

**Ans:** B

19. Given below is a question followed by two statements I and II. Read both statements carefully to decide which one of them is sufficient to answer the question.

Six people - A, B, C, D, E and F are sitting in a straight line facing north. Who sits to the immediate left of D?

(I) A sits second from one of the extreme ends of the line. Only two people sit between A and B. E sits to the immediate right of C.

(II) C sits third from the left end of the line. Only one person sits between C and F. E sits third to the right of F.

A. Data in statement II alone is sufficient to answer the question while data in statement I is not.

B. Data in statement I alone is sufficient to answer the question while data in statement II is not.

C. Data in statements I and II together are not sufficient to answer the question.

D. Data in statements I and II together are sufficient to answer the question.

**Ans:** C

20. A question is given, followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements is sufficient to answer the question. Read both the statements and select the appropriate answer.

**Question:** How many people are standing in the row where all people are facing north?

**Statements:**

(I) A is fourth from the left end; M is second to the right of A; and R is second from the left end.

(II) M is fourth from the right end; only two people stand between M and B.

A. Data in either statement I alone or statement II alone is sufficient to answer the question

B. Data in statements I and II together is sufficient to answer the question

C. Data in statement I alone is sufficient to answer the question while data in statement II is not





D. Data in statement II alone is sufficient to answer the question while data in statement I is not

**Ans: B**

21. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row - 12, 7, 32

Second row - 17, 13, 33

Third row - 14, 8, ?

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

A. 42

B. 38

C. 43

D. 35

**Ans: B**

22. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row - 28, 12, 220

Second row - 23, 43, 363

Third row - 34, 72, ?

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 -

Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed.

A. 583

B. 567

C. 546

D. 555

**Ans: A**

23. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row - 5, 7, 60

Second row - 12, 8, 100

Third row - 11, 5, ?

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

A. 80

B. 23

C. 110

D. 75

**Ans: A**



24. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row - 16, 20, 8

Second row - 32, 15, 11

Third row - 8, 15, ?

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

- A. 23                      B. 5  
C. 8                        D. 13

**Ans:** B

25. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row - 6, 9, 90

Second row - 12, 8, 120

Third row - 13, 6, ?

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

- A. 110  
B. 125  
C. 102  
D. 114

**Ans:** D

26. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row: 243, 162, 9

Second row: 108, 72, 6

Third row: 48, ?, 4

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- A. 12                      B. 21  
C. 23                      D. 32

**Ans:** D

27. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row - 15, 11, 43

Second row - 13, 8, 48

Third row - 9, 7, ?

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /



subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

- A. 28
- B. 27
- C. 23
- D. 30

**Ans: C**

28. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

12	14	26
45	24	69
36	24	

- A. 645
- B. 231
- C. 501
- D. 195

**Ans: C**

29. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

9	18	162
4	8	32
12	24	

- A. 288
- B. 289
- C. 292
- D. 242

**Ans: A**

30. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

6	15	48
7	17	55
13	29	?

- A. 78
- B. 82
- C. 63
- D. 97

**Ans: D**

31. In the following question, select the missing number from the given series.

123, 125, 127, ?, 131, 133

- A. 129
- B. 130
- C. 128
- D. 145

**Ans: A**

32. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

GAR, AXS, UUT, ORU, ?

- A. IMR
- B. MOV
- C. IOV
- D. QRT

**Ans: C**





33. Which letter cluster will replace the question mark (?) to complete the given series?

EDIC, FGJF, ?, HMLL, IPMO

- A. GJKJ                      B. GJLI  
C. GJKI                      D. GIKI

**Ans: C**

34. Which of the following letter clusters will replace the question mark (?) and complete the following letter cluster series?

DW, FU, HS, JQ, LO, ?

- A. NO                          B. MN  
C. NM                          D. NN

**Ans: C**

35. Which of the following numbers will replace the question mark (?) in the given series?

31, ?, 40, 49, 61, 76

- A. 37                          B. 35  
C. 36                          D. 34

**Ans: D**

36. Which of the following letter-clusters will replace the question mark (?) in the given series?

TYG, ?, PSM, NPP, LMS

- A. RVJ                          B. SUJ  
C. SVK                          D. RUK

**Ans: A**

37. If Seshan is taller than Ammu but shorter than Raju and Ammu is just as tall as Nitin but taller than Kishore, then Nitin is:

- A. Just as tall as Seshan  
B. Shorter than Ammu  
C. Taller than Raju  
D. Shorter than Seshan

**Ans: D**

38. Five students P, Q, R, S and T have different percentage of marks. P's percentage is higher than just one student. T's percentage ranks in the middle of all five students. Q has the second highest percentage. If S is not the topper, whose percentage is second last among the five students?

- A. R                              B. T  
C. P                              D. Q

**Ans: C**

39. B is fatter than S, who is thinner than C. N is thinner than B but fatter than C. Two other men are fatter than B. Who is the thinnest?

- A. B                              B. S  
C. C                              D. N

**Ans: B**

40. In a row of 11 girls, when Tina was shifted by three places towards the right she became 8<sup>th</sup> from the left end. What was her earlier position from the right end of the row?

- A. 9<sup>th</sup>                              B. 8<sup>th</sup>  
C. 7<sup>th</sup>                              D. 5<sup>th</sup>

**Ans: C**



41. In a row of boys, Tarak is 18<sup>th</sup> from either end. How many boys are there in the row?

- A. 19
- B. 36
- C. 35
- D. 42

**Ans: C**

42. In a class of 40 students. Where girls are thrice that of boys, Kapil ranked fifteenth from the top. If there are 7 girls ahead of Kapil. How many boys are after him in rank?

- A. 18
- B. 5
- C. 2
- D. 3

**Ans: C**

43. A is 6 ranks ahead of B who ranks 22<sup>nd</sup> in a class of 30. What is A's rank from the last?

- A. 14
- B. 20
- C. 15
- D. 1

**Ans: C**

44. In a row of girls, Antimbala is sixth from the left and Ekta is seventh from the right. When they exchange their positions, then Antimbala becomes thirteenth from the left. What will be Ekta's position from right?

- A. 13
- B. 14
- C. 15
- D. 12

**Ans: B**

45. Sandeep is 8 ranks ahead of Kapil in a class of 40 students. If Kapil is 10<sup>th</sup> from the last, then what is Sandeep rank from the start?

- A. 23<sup>rd</sup>
- B. 24<sup>th</sup>
- C. 18<sup>th</sup>
- D. 30<sup>th</sup>

**Ans: A**

46. The radius of a circle is 90 cm. If the radius of this circle is increased to 99 cm, then what will be the percentage increase in the area of this circle?

- A. 22.5%
- B. 21%
- C. 25%
- D. 20%

**Ans: B**

47. Vaidehi got 92% marks in an examination and Kavyanjali got 78% marks in the same examination. If the difference between the marks obtained by Vaidehi and Kavyanjali is 105, find the marks obtained by Vaidehi in the examination.

- A. 736
- B. 644
- C. 690
- D. 598

**Ans: C**

48. The ratio of the sum of and the difference between two numbers is 6 : 5. Find the ratio of these two numbers.

- A. 3 : 2
- B. 7 : 5
- C. 2 : 3
- D. 11 : 1

**Ans: D**



49. What would be the ratio of the areas of two circles, i.e. Circle-A and Circle-B, the radius of which are 4 cm and 8 cm, respectively?

- A. 1 : 2
- B. 1 : 16
- C. 1 : 8
- D. 1 : 4

**Ans:** D

50. In a class of 98 students, all play at least one of the three games – snooker, chess and tennis. 42 students play snooker, 49 play tennis, and 43 play chess. The total number of students who play any and only two games is 29. 5 students play all the three games. The number of students who play only snooker and only chess is equal. 11 students play only snooker and tennis. 6 students play only snooker and chess. How many students play only tennis?

- A. 21
- B. 23
- C. 20
- D. 22

**Ans:** A

51. Two trains of equal length take 10 seconds and 15 seconds respectively to cross a school. If length of each train be 120 m, in what time (in seconds) will they cross each other travelling in opposite direction?

- A. 10
- B. 12
- C. 15
- D. 20

**Ans:** B

52. Mr. Neerav Modi was born two years after his father's marriage. His mother is five years younger than his father but 20 years older than Mr. Modi who is 10 years old. At what age did his father get married?

- A. 23 years
- B. 25 years
- C. 28 years
- D. 30 years

**Ans:** A

53. There are five students D, M, Q, V and H participating in a play each of different age. Q is younger than only M and H. D is younger than Q and older than V. Who among them is immediate elder than the youngest?

- A. M
- B. Q
- C. V
- D. D

**Ans:** D

54. In the basement of an apartment, the total number of wheels of all cars and bikes is 70 more than twice the number of parked vehicles. The number of cars parked in the basement is:

- A. 35
- B. 70
- C. 20
- D. 25

**Ans:** A



55. The weights of 4 boxes are 100, 70, 50 and 90 kilograms. Which of the following cannot be the total weight, in kilograms, of any combination of these boxes and in a combination a box can be used only once?

- A. 310
- B. 260
- C. 230
- D. 210

**Ans: C**

56. Hari can dig a well in 20hrs and Om can do it in 5hrs more than Hari. How much time will Hari & Kishan will take together if Kishan takes same as taken by Hari?

- A. 10hrs
- B. 12hrs
- C. 15hrs
- D. 20hrs

**Ans: A**

57. If  $23 \div 35 = 13$ ,  $3 \div 5 = 8$  then what is the value of  $4 \div 13 = ?$

- A. 8
- B. 14
- C. 6
- D. 49

**Ans: A**

58. The weights of 4 boxes are 100, 90, 80 and 40 kilograms. Which of the following cannot be the total weight, in kilograms, of any combination of these boxes and in a combination a box can be used only once?

- A. 200
- B. 310
- C. 230
- D. 210

**Ans: A**

59. Travel fare is like below :

Train upto 3km Rs.5, 3 - 15 km Rs.10, 15 - 35 km Rs.15, more than 35 km Rs.20.

Bus upto 3 km Rs.7, 3 - 12 km Rs.8, 12 - 20 km Rs.9, more than 20 km Rs.10.

Auto-rickshaw upto 2 km Rs.10, 2 - 6 km Rs.15, 6 - 10 km Rs. per head.

If a person set out for a destination of 40 Km away and he covers 55%, 35%, 10% in Train, Bus, Auto-rickshaw respectively. Then how much is his travelling cost?

- A. 35
- B. 46
- C. 39
- D. 52

**Ans: C**

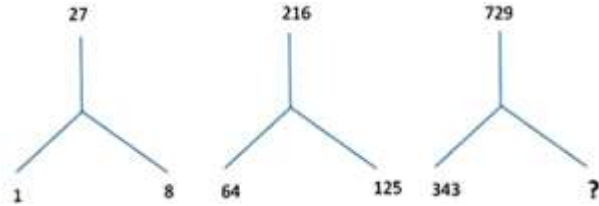
60. There is a circular path with diameter 28 meter. One person starts running from center toward circumference straight, then run through circumference 35% of full circumference, then again toward center straight. Total how much path that person covered by running?

- A. 58.8
- B. 68.8
- C. 76
- D. 46

**Ans: A**



61. Select the missing number from the given responses.



- A. 432
- B. 334
- C. 512
- D. 501

**Ans: C**

62. Select the related word / letters / numbers from the given alternatives:

5 : 124 :: 7 : ?

- A. 125
- B. 248
- C. 342
- D. 343

**Ans: C**

63. For the following questions Find the odd word/letters/number pair from the given alternatives.

- A. 443
- B. 633
- C. 821
- D. 245

**Ans: B**

64. Select the related word / letters / number from the given alternatives.

68 : 130 :: 222 : ?

- A. 345
- B. 365
- C. 355
- D. 350

**Ans: D**

65. If  $5 * 3 = 19$  and  $8 * 5 = 49$ , then what should  $6 * 4$  be?

- A. 24
- B. 28
- C. 18
- D. 16

**Ans: B**

66. When A was born, A's uncle was 27 years older than A's sister. A's aunty was 20 years older than A's brother. If A's sister is three years older than A and A's aunty is two years younger than A's uncle. How old was A's brother when he was born ?

- A. 8
- B. 10
- C. 12
- D. 15

**Ans: A**

67. A woman says, " if you reverse my age, the figure represent my husband's age. He is older than me and the difference of our ages is one-eleventh of the sum of our ages." The woman's age is?

- A. 23
- B. 34
- C. 45
- D. None of these

**Ans: C**

68. Mangal is twice old as his younger brother Suman. Age of Suman is one-third of his father Akhilesh's age. If the total age of Suman, Mangal and Akhilesh is 84 years. How old is Suman?

- A. 17 years
- B. 15 years
- C. 25 years
- D. 14 years

**Ans: D**



69. The ratio of the present age of Mitali to that of Shabnam is 4: 7. If the difference between the present ages of Shabnam and Mitali after 5 years will be 13 years, then what is the sum of the present ages of Mitali and Shabnam?

- A. 64 years
- B. 74 years
- C. 60 years
- D. 66 years

**Ans:** D

70. The average of 9 numbers is 40. If the average of the first five numbers is 38 and that of the last five is 50, then what is the fifth number?

- A. 90
- B. 84
- C. 78
- D. 80

**Ans:** D

71. At a party, the number of girls is half the number of boys. After an hour, five boys leave the party and three girls join the party then the number of boys and girls in the party becomes equal. How many people were present at the party an hour before?

- A. 8
- B. 24
- C. 22
- D. 16

**Ans:** B

72. Three year ago, the ratio of Gokul and Sukumar ages was 5: 7 respectively. Six years hence, this ratio becomes 7: 9. How old is Sukumar now?

- A. 44.5 years
- B. 34.5 years
- C. 24.5 years
- D. 54.5 years

**Ans:** B

73. The total of the ages of Amit and Suvarna on 1 January 2015 is 61 years. Amit is three years younger than Suvarna. What was the age of Suvarna on 1 January 2010?

- A. 29 years
- B. 32 years
- C. 27 years
- D. 24 years

**Ans:** C

74. Shaan has a total of Rs. 5,500 with him. He buys product 'Z' at Rs. 5,000 from this sum and then sells it to another person, thus making a profit of 15% on it. With all the money he has now, he buys product 'X' and then sells it to another person making a profit of 25% on it. What is the total money Shaan has now?

- A. Rs. 7,812.50
- B. Rs. 7,815.50
- C. Rs. 7,187.50
- D. Rs. 6,325.50

**Ans:** A





75. Among 160 players in a tournament, 57 did not participate in any of the three games, i.e. Cricket, Hockey and Badminton. A total of 37 players participated in only one game, 10 players participated in both Cricket and Hockey but not in Badminton, 9 players participated in both Hockey and Badminton but not in Cricket, and 13 players participated in both Cricket and Badminton but not in Hockey. How many students participated in all the three games?

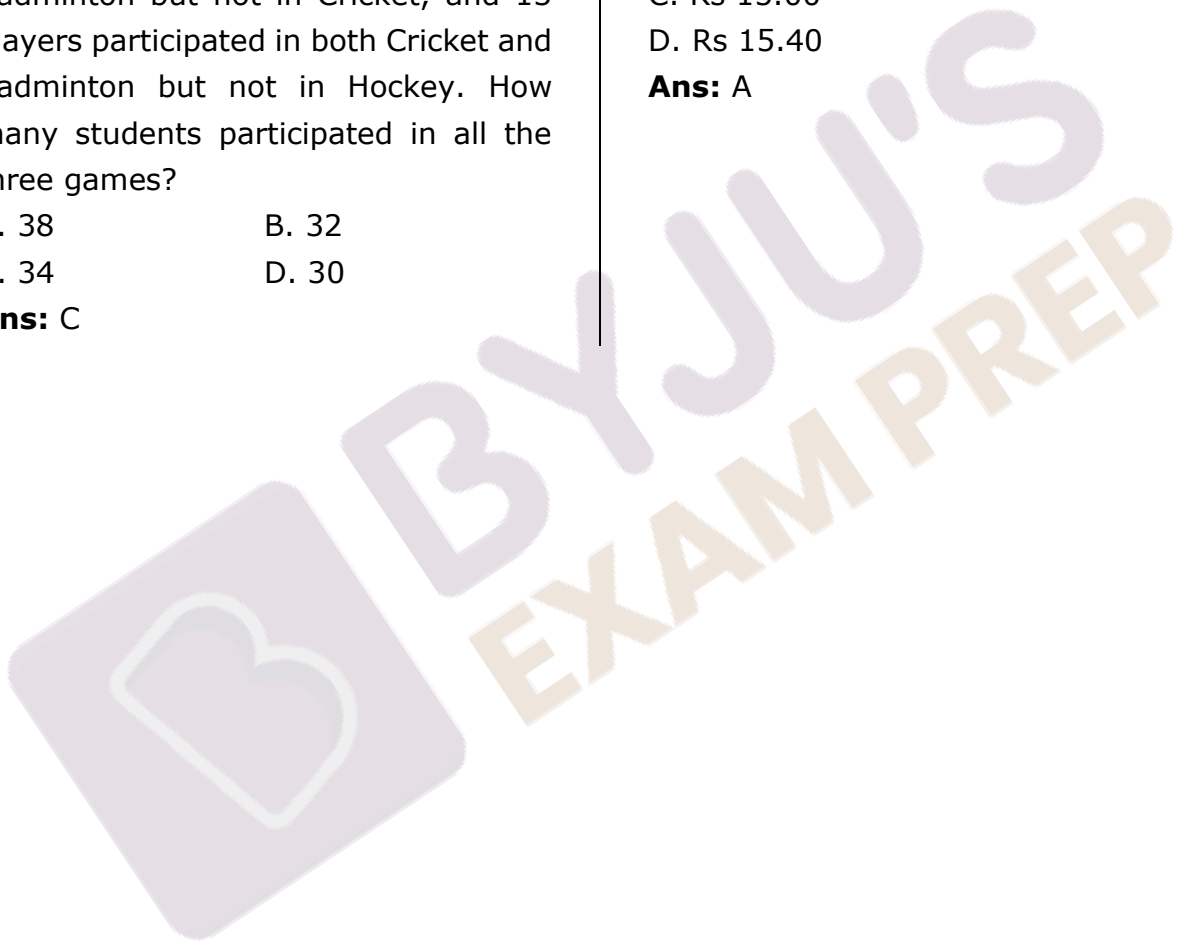
- A. 38                      B. 32  
C. 34                      D. 30

**Ans:** C

76. Hemant buys a dozen eggs for rs 5.50 per egg. While carrying them, two eggs wasted when they fall down and get damaged. He sells the balance eggs at rs 7.70 per egg. Find the net profit earned by him in the overall deal.

- A. Rs 11.00  
B. Rs 10.70  
C. Rs 15.00  
D. Rs 15.40

**Ans:** A



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