

This Pdf is available in हिन्दी and English.

Average Questions for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains, IBPS Clerk Mains & LIC AAO Exams.

Direction: Read the following questions carefully and choose the right answer.

B.32 years

A.34 years

| 1. | The age of Abhi, 7 years from now, will be 25% more than the age of Sunny 5 years |
|----|--|
| | hence. 5 years ago the average of age of Abhi's father and Abhi was 23 years. Abhi |
| | was 4 years old when Sunny was 1 year old. What will be the age of Abhi's father |
| | when Sunny was 10 years old? |
| | • |

D.33 years

E. 38 years

A. 57.8 B. 57.2 C. 56.9 D. 57.6 E. None of these

C.40 years

3. Six students take an exam two times. The increase in average marks of all the students from first test to second test is 30%. The difference of the total marks of first five students in the two tests is 20% of their total marks in second test. If in the first test the marks of the sixth student were mistakenly written 1/9 times more than the original, what is the actual percentage increase in his marks?

A. 57% B. 100% C. 72.22% D. 80 E. None of these

4. Karan calculates the average of his marks in five subjects. By mistake he writes number of two subjects as reverse of original marks thereby increasing the average by 27 marks. If the incorrect numbers are in the ratio 13:10, what is the sum of the original numbers? (The marks awarded are from 01, 02 ... to 99)

A. 35 B. 31 C. 43 D. 26 E. None of these

5. There are four sisters Bhavna, Geeta, Simran and Sania. The age of Sania is (x - 5) years. The ratio of the age of Sania 5 years hence to the age of Geeta 2 years before is 5:4. The ratio of the age of Bhavna 1 year before to the age of Sania 3 years hence is 1:4. Sania is 7 years older than Geeta, then find the age of Simran whose age is 1 year less than average age of other 3 sisters.

A.38 years B. 46 years C. 40 years D. 39 years E. 44 years

6. Average weight of group of four persons P, Q, R and S is 67 Kg. If Q is excluded from the group and another person T is included in the group then average weight

| | ases by 4 kg. If the than the weight of | • | • | and weight of T is 18 kg |
|-----------|--|---------------------|--------------------|--------------------------|
| A. 77 kg | B. 68 kg | C. 79 kg | D. 72 kg | E. 75 kg |
| 7. The av | verage marks in Eng | glish scored by the | students of a scho | ol in the Olympiad exam |

7. The average marks in English scored by the students of a school in the Olympiad exam was 48. If 4 of these students who actually scored 5, 7, 9 and 11 are not counted, the average marks for the school in the Olympiad exam would have been 50. Find the number of students sent for the Olympiad by the school.

A. 52 B. 84 C. 88 D. 90 E. 82

8. The present average age of three friends Sonia, Alia and Varun is 76/3 years. The ratio of age of Sonia 2 years hence and age of Alia 4 years hence is 9: 7 respectively, and the ratio of age of Alia 3 years ago and age of Varun 4 years ago is 3: 2 respectively. Find the present age of Alia.

9. A man purchases three items from a shop. He got one item gift wrapped for Rs12. He paid a total of Rs 312 and shopkeeper made a profit of 11.11% on the cost price of all the three items together. The average cost price of the other two items is Rs 75. The gift item was sold at a profit of 25% after a discount of 16.67%. What is the marked price of gift wrapped item?

A. Rs. 196 B. Rs. 180 C. Rs. 172 D. Rs. 204 E. None of these

10. There are four identical glasses which have water in them. The volume of water in four glasses is 30%, 35%, 88% and 99%. The glasses are emptied in an empty container and then the same container is used to fill 60% volume of each glass with water. If the remaining water in container is 60ml, what is the final total quantity of water in all the four glasses?

A. 1800 ml B. 1200 ml C. 1500 ml D. 1260 ml E. None of these

11. A salesman sells 10 Notebooks on Monday, 13 Notebooks on Tuesday, 12 Notebooks on Wednesday, 11 Notebooks on Thursday and 12 Notebooks on Friday. If the salesman is paid Rs. x for selling every 10 Notebooks and Rs. y for selling every extra Notebook, then find the average of daily earning of the salesman in rupees for the five days?

A. $x + \frac{8}{5}y$ B. $\frac{5x + 9y}{5}$ C. $10x + \frac{8}{5}y$ D. 5x + 8y E. None of these

| 12. | The average height of 3 boys Bikesh, Sam and Suhas is 208/3 inches while the average height of Bikesh, Vihal and Rakesh is 203/3 inches. What is the average height of Bikesh, Sam, Suhas, Vihal and Rakesh? | | | | | | | |
|---------|--|---|--|--|--|--|--|--|
| A. 65 | inches | B. 66 inches | C. $\frac{197}{3}$ inches | D. 64 inches | E. Can't be determined | | | |
| 13. | Aman goes to park daily. His last week average speed with which he completed one round of the park was 47Km/h, for the first four days was 37Km/h, and that for the last four days was 52.5Km/h. Find out the time taken by Aman to travel 203 Km if he travels with the speed of the fourth day. | | | | | | | |
| A. 7 h | ours | B. 8 hours | C. 6 hours | D. 5.5 hours | E. None of these | | | |
| 14. | In an office some persons are officers and some are non-officer. The number of officers is 30. The average salary of officers is Rs.1040 and that of non-officers is Rs.400. If the average salary of entire staff in office (officers + Non – officers) is Rs.500 per month, then what is the average of total number of employees (officers + Non – officers) in the office? | | | | | | | |
| A. 49 | | B. 89 | C. 92 | D. 96 | E. None of these | | | |
| 15. | per centre number of | <mark>was f</mark> ound to be 1 applicants was c | 560. However, it wa | as later realized th stead of 1747. W | number of applicants at in one centre, the hat was the correct | | | |
| A. 155 | 57.87 | B. 1558.20 | C. 1558.92 | D. 1559.51 | E. 1559.78 | | | |
| 16. | average of | the next six numb | | Ith and 15th numb | numbers is 126, the pers exceed the 13th | | | |
| A. 130 |) | B. 140 | C. 135 | D. 142 | E. 125 | | | |
| 17. | A, B, C, D and E are five persons. The weight of A, B and C is 90%, 112% and 94% respectively of the average weight of all five. The ratio of weight of D and E is 6:11. The difference between the weight of D and E is 75kg. What is the average weight of all the five persons? | | | | | | | |
| A. 84 k | kg | B. 90 kg | C. 76 kg | D. 69 kg | E. None of these | | | |
| 18. | _ | | nglish by 17 girls of g order form and in | | narks obtained by ession. If the marks | | | |

| | | • | - | oth position are removed ned by the remaining gir | • | | | |
|--------------------|--|-------------------------------|---|--|--|----|--|--|
| A. 33 | | B. 35 | C. 37 | D. Can't be determined | E. None of these | | | |
| 19. | Average marks of group of students is 48. Out of these, 3 students with marks 43, 68 and 51 are removed and a new student with a score of 84 is added to the list. If the number of students in the group was 8, then find the percentage increase in the average marks with respect to the initial average? | | | | | | | |
| A. 6.25 | 5% | B. 5.75% | C. 8.25% | D. 6.75% | E. None of these | | | |
| 20. | 'N' is the number employees in a Bengaluru based IT company. The average age of employees working in the company is 35 years. What will be the average age of these employees in next two years when 10 employees will retire. Given that, retirement age is 60 years and $N = 40$. | | | | | | | |
| A. $\frac{87}{13}$ | | B. $\frac{83}{7}$ | C. $\frac{86}{13}$ | D. $\frac{86}{3}$ | E. None of these | | | |
| 21. | friends pa | <mark>id some</mark> equal am | ount. They la n was 5 mor d each of his | | average amount th y paid by each of h | at | | |
| A. Rs. | 80 | B. Rs. 90 | C. Rs. 150 | D. Rs. 100 | E. None of these | | | |
| 22. | family important | mediately after the | e birth of firs | and their three childrer st, second and third chile of elder child, if the p | ld was 16, 15.75 ar | nd | | |
| A. 6 ye | eears | B. 7 years | C. 8 years | D. 5 years | E. 4 years | | | |
| 23. | Average of Eight numbers is 75. If highest and lowest number is removed then average becomes 80. If the ratio of highest number to lowest number is 3:1, then highest number is what percent of sum of the all the eight numbers? | | | | | | | |
| A. 12% | 6 | B. 20% | C. 18% | D. 24% | E. 15% | | | |
| 24. | money. Th | ne average contrib | ution of boys | number of boys and gi was Rs. 250 and that o s Rs. 160 on the whole t | f girls was Rs. 100. | If | | |

students are boys?

| A.60% | 6 B. 4 | 4% C. 4 | 40% | D. 80% | E. None of these | | | |
|--------|--|--------------------------------------|-----------------|------------------------------------|---|--|--|--|
| 25. | The average number of chocolates that some number of boys have is 240 and average number of chocolates that some number of girls have is 180, . If each of the boys eat 10 chocolates then the average number of chocolates with all the students become 200. The total number of boys is what percentage of the total number of students? | | | | | | | |
| A. 75% | % В. 4 | 0% C. (| 60% | D. 62.5% | E. None of these | | | |
| 26. | performing tear | - | bonus of 20 % v | was equal to the 4 | ptain of the best times of what rest | | | |
| A. 20 | B. 1 | 6 C. | 17 | D. 22 | E. None of these | | | |
| 27. | _ | 15 numbers is 26. he new average. | If each number | is first multiplied b | y 6 then increased | | | |
| A. 122 | 2 B. 3 | 8 C. | 162 | D. 96 | E. None of these | | | |
| 28. | 3. The average expenditure of Vivek from June to November is Rs. 8550 and he spent Rs. 1850 in June and Rs.2420 in December. The average expenditure from July to December is? | | | | | | | |
| A. Rs. | 8640 B. R | s. 8645 C. | Rs. 8650 | D. Rs. 8675 | E. None of these | | | |
| 29. | 9. The average weight of 10 persons was increased by 2.5 kg when Ram comes in place of Mohan but if Sohan comes in place of Mohan then the average weight of the 10 persons was increased by 3.5 kg. If the weight of Mohan is 55 kg then what is the average weight of Ram, Mohan, and Sohan? | | | | | | | |
| A. 65 | kg B. 7 | 0 kg C. | 75 kg | D. 80 kg | E. None of these | | | |
| 30. | The average age of a family is 35 years. After 10 years, twins were born in the family then the average age of the family becomes 36 years. How many members are there in the family except twins? | | | | | | | |
| A. 9 | В. 7 | C. (| 6 | D. 10 | E. None of these | | | |
| 31. | | • | - | 8.5 . The price of 4 ge price of 7 | pens is Rs. 3 more nd 5 pencils? | | | |
| A. Rs. | 10 B. R | s. 11 C. | Rs.12.5 | D. Rs. 10.5 | E. None of these | | | |

| 32. | The average height of the first six students is 170 cm, the average height of the last eight students is 175 cm. The average height of the total 16 students is 180 cm. Find the average height of the rest two students. | | | | |
|--------|--|---|--|---|--|
| A. 210 |) cm | B. 250 cm | C. 240 cm | D. 230 cm | E. 260 cm |
| 33. | 3. The average salary of each trainee in an startup is Rs. 90. The average salary of 16 trainees is Rs.708.75 and the average salary of the rest is Rs. 75. How many trainees does the startup have? | | | | |
| A. 670 |) | B. 676 | C. 682 | D. 840 | E. None of these |
| 34. | | | e for 200 students now many more da | | r 10 days, 50 more at? |
| A. 42 | days | B. 32 days | C. 30 days | D. 40 days | E. None of these |
| 35. | weight of average we | R and T is $(x - 6)$ k | g. If the weight of | another person U | g while the average is also added, then 'x' if average weight |
| A. 74 | | B. 80 | C. 84 | D. 90 | E. 94 |
| 36. | by 2 years | when the age of the class | he class teacher a | nd principal is add | he class is increased ed. If the difference then find the age of |
| A. 32 | years | B. 38 years | C. 44 years | D. 50 years | E. Can't be determined |
| 37. | months an amount equ | d "y" months resp ually between them | ectively to their fa | ther. Their father hem receives Rs. 12 | distributed the total 6000. If the ratio of x ray to their father? |
| A. Rs. | 35800 | B. Rs. 32000 | C. Rs. 36200 | D. Rs. 36000 | E. None of these |
| 38. | 38. A, B and C are brothers and they give the total amount of money with them to their father who distributes the total money equally between them such that each one of them gets Rs 480. After distribution the money with A becomes 75%, money with B becomes 12/13 and that with C increases by 500/7 % of their respective initial amount. What was the difference between the original amount of money with A and C? | | | | |
| A. Rs. | 380 | B. Rs. 360 | C. Rs. 420 | D. Rs. 300 | E. None of these |

| 39. | The weight of Varun, Rahul and Priyanka in 2011 was is in the ratio 6:5:7. In 2016 weight of Varun became 150%, weight of Rahul became 160% and the weight of Priyanka increased by 300/7% as compared to their weight in 2011. If the average increase in their weight is 7.2kg, what is the difference between the weight of Varun in 2016 and the weight of Priyanka in 2011? | | | | | |
|--|--|--|---|----------------------------------|---|--|
| A. 5.0 kg B. 4.8 kg C. 5.2 kg D. 4.6 kg E. None of these | | | | | | |
| 40. | 1. The weight of A, B and C is recorded and their recorded weight is in the ratio 13:6:5 respectively. The average recorded weight of all three came out to be 56kg. Later it was noticed that weight of A was written 44.44% more, weight of B was written 14.28% less and weight of C was written 33kg more. What is the original average weight of three friends? | | | | | |
| A. 38 | kg | B. 36 kg | C. 42 kg | D. 44 kg | E. None of these | |
| 41. | 11. Average temperature from Sunday to Wednesday is 34° C while average temperature from Wednesday to Saturday is 38°C. Average temperature throughout the week is 36°C. Find the temperature on Wednesday. | | | | | |
| A. 36° | ,C | B. 38°C | C. 34°C | D. 32°C | E. None of these | |
| 42. | that the w of one of t of a boy in | v <mark>eight</mark> of two stude the girls in the clas n the class was 42 | ents in the class wa s was 26 kg, but it | s wrongly calc was calculated | s 32 kg. It was later found ulated. The actual weight d as 30 kg and the weight 36 kg. What is the actual | |
| A. 31. | 44 kg | B. 32.03 kg | C. 31.57 kg | D. 33.12 kg | E. None of these | |
| 43. | _ | _ | | | lents joined the class and ge weight of the two new | |
| A. 16. | 5 kg | B. 15.4 kg | C. 14.2 kg | D. 13.7 kg | E. None of these | |
| 44. | Average of a set of five consecutive even numbers is 48. Average of another set of five consecutive odd numbers is 49. Find the product of smallest even number of the first set and largest odd number of the second set. | | | | | |
| A. 322 | 23 | B. 2323 | C. 3232 | D. 2332 | E. None of these | |
| 45. | The average age of a group of 30 friends is 34 years. The average age of the first 10 friends is 31 years and the average age of the last 18 friends is 33 years. What will be the average age of the 11th and 12th friend? | | | | | |

| A. 52 | years | B. 54 years | C. 56 years | D. 50 years | E. 58 years | | |
|-------|---|--------------------|-------------------|------------------|---|--|--|
| 46. | A sequence contains eleven terms, which are consecutive even integers. The average of the second and the seventh term is 15. Find the average of all the terms. | | | | | | |
| A. 15 | | B. 16 | C. 17 | D. 18 | E. None of these | | |
| 47. | joins the cla | | = = | | acher of weight 54 kg and the strength of the | | |
| A. 22 | | B. 25 | C. 29 | D. 34 | E. 38 | | |
| 48. | 48. In Vrindavan Housing Society the monthly society expenditure has a fixed and a variable component, such that the variable component depends on the number of members in the society. If there are 50 members, then each member has to pay Rs. 110 and if there are 30 more members then each member has to pay Rs. 80. If each member pays Rs. 130, then how many members are there in the society? | | | | | | |
| A. 45 | | B. 55 | C. 40 | D. 60 | E. None of these | | |
| 49. | participant | | d then average a | | some time 5 more 7 3 years. Find the | | |
| A. 47 | years | B. 48 years | C. 50 years | D. 45 years | E. 46 years | | |
| 50. | 11 goals o | n an average in fi | rst 4 matches and | 13 goals on an a | natches. If he scored verage in the last 4 maining 2 matches. | | |
| A. 11 | goals | B. 12 goals | C. 13 goals | D. 10 goals | E. 9 goals | | |
| | | | | | | | |

| 1. | के पिता और | | 23 साल था। अभी 4 स | | होगी। 5 साल पहले अभी प्राल का था। जब सनी 10 |
|----------|-----------------------------|---|--|------------------------|--|
| A. 34 \$ | | B. 32 साल | ट. ४० साल | D. 33 साल | E. 38 साल |
| 2. | याद्दच्छिक रूप औसत वजन 5 | । से चुना गया था, लेकिन | । शर्त यह थी कि संख्या त्रों का चयन नहीं किया | या तो 2 या 5 के गुणक | दिवस की परेड के लिए में होनी चाहिए। सभी का छात्रों का औसत वजन 58 |
| A. 57.8 | 3 | B. 57.2 | C. 56.9 | D. 57.6 | E. इनमें से कोई नहीं। |
| 3. | 30% है। दो प 20% है। यदि | परीक्षणों में पहले पांच | छात्रों के कुल अंकों क 5 छात्र के अंक गलती | ा अंतर दूसरे परीक्षण | के औसत अंकों में वृद्धि में उनके कुल अंकों का अधिक लिखे गए थे, तो |
| A. 57% | 6 | B. 100% | C. 72.22% | D. 80 | E. इनमें से कोई नहीं। |
| 4. | बदल कर लिख | | 27 अंक बढ़ जाते हैं। य | दि गलत संख्या 13:10 | के मूल अंकों के अंक को के अनुपात में है, तो मूल |
| A. 35 | | B. 31 | C. 43 | p. 26 on Bai | E. इनमें से कोई नहीं। |
| 5. | 2 साल पहले र | गिता की उम्र का अनुपात है। सानिया गीता से 7 वर्ष | 5: 4 है। 1 वर्ष पहले भा | वना की आयु और 3 वर्ष | बाद सानिया की उम्र और बाद सानिया की आयु का ों की औसत आयु से 1 वर्ष |
| A.38 व | ार्ष | в. 46 वर्ष | c. 40 वर्ष | D. 39 वर्ष | E. 44 वर्ष |
| 6. | और एक अन्य | व्यक्ति T को समूह में श सत वजन 58 किलोग्राम | गमिल किया गया है तो उ | औसत वजन 4 किलोग्राम | तमूह से बाहर रखा गया है न कम हो जाता है। यदि T अधिक है, तो Q और T का |
| A. 77 أ | केलोग्राम | B. 68 किलोग्राम | c. 79 किलोग्राम | D. 72 किलोग्राम | E. 75 किलोग्राम |
| 7. | जिन्होंने वास्तव | | p प्राप्त किये हैं, उनकी | गिनती नहीं की जाती है, | थे। यदि इनमें से 4 छात्र तो ओलंपियाड परीक्षा में ज्ञात कीजिए। |
| A. 52 | | B. 84 | C. 88 | D. 90 | E. 82 |

| 8. | तीन दोस्तों सोनिया, आलिया और वरुण की वर्तमान औसत आयु 76/3 वर्ष है। 2 वर्ष बाद सोनिया की आयु और 4 वर्ष बाद आलिआ आयु का अनुपात क्रमशः 9: 7 है और 3 वर्ष पहले आलिया की आयु और 4 वर्ष पहले वरुण की आयु का अनुपात क्रमशः 3: 2 है। आलिया की वर्तमान आयु ज्ञात करें। | | | | | |
|-------------------|---|--|--|---|---|--|
| A. 18 | वर्ष | B. 34 वर्ष | C. 24 वर्ष | D. 28 वर्ष | E. इनमें से कोई नहीं। | |
| 9. | 312 रुपये व अन्य दो वस्त् | न भुगतान किया और दुव | गनदार ने सभी तीन वस्त् ल्य 75 रुपये है। गिफ्ट व | 3ओं की लागत मूल्य पर गे 16.67% की छूट के | में पैक कराया । उन्होंने कुल 11.11% का लाभ कमाया। बाद 25% के लाभ पर बेचा | |
| A. Rs. | . 196 | B. Rs. 180 | C. Rs. 172 | D. Rs. 204 | E. इनमें से कोई नहीं। | |
| 10. | में गिलास ख | ाली कर दिए जाते हैं और | फिर उसी बरतन का उप | प्योग प्रत्येक गिलास के | र 99% है। एक खाली बरतन 60% मात्रा को पानी से भरने i पानी की कुल मात्रा क्या है? | |
| A. 18 | ०० मिलीलीटर | B. 1200 मिलीलीटर | c. 1500 मिलीलीटर | D. 1260 मिलीलीटर | E. इनमें से कोई नहीं। | |
| 11. | और शुक्रवार | को 12 नोटबुक बेचता ने पर y रु मिलते हैं तो पां | है। यदि विक्रेता को प्रत्येव च दिनों के लिए रुपये में | त्र 10 नोटबुक बेचने पर विक्रेता की औसत दैनिव | वुक, गुरुवार को 11 नोटबुक x रु और अतिरिक्त प्रत्येक क कमाई का पता लगाएं? | |
| A. x + | $-\frac{8}{5}$ Y | B. $\frac{5x + 9y}{5}$ | | D. 5x + 8y | E. इनमें से कोई नहीं। | |
| 12. | | केश, सैम और सुहास र्क '3 इंच है बीकेश, सैम, स् | ो औसत लम्बाई 208/3 | इंच है जबकि बीकेश, वि | वहल और राकेश की औसत | |
| A. 65 | इंच | B. 66 इंच | C. $\frac{197}{3}$ इंच | D. 64 इंच E. नि | र्धारित नहीं किया जा सकता | |
| 13. | चक्कर लगा | या था, पहले चार दिनों वे घंटा थी ज्ञात कीजिये या | p लिए उस्की औसत च | ाल ३७ किमी/घंटा और | जिससे उसने पार्क का पूरा आखिरी चार दिनों के लिए 3 किमी दूरी को वह कितने | |
| A. 7 ^E | ग्रंटे | B. 8 घंटे | C. 6 घंटे | D. 5.5 घंटे | E. इनमें से कोई नहीं। | |
| 14. | 14. किसी कार्यालय में कुछ व्यक्ति अधिकारी और कुछ गैर-अधिकारी है। अधिकारियों की संख्या 30 है। अधिकारियों की औसत आय 1040 रूपये है और गैर अधिकारियों की औसत आय 400 रूपये है। यदि समस्त कर्मचारियों की औसत आय (अधिकारी + गैर-अधिकारी) 500 रूपये प्रति माह है तो कार्यालय में कुल कर्मचारियों (अधिकारी + गैर-अधिकारी) की संख्या का औसत कितना है? | | | | | |
| A. 49 | | B. 89 | C. 92 | D. 96 | E. इनमें से कोई नहीं। | |

| 15. | एक राज्य में 222 केन्द्रों पर एक परीक्षा आयोजित की गयी। प्रत्येक केंद्र पर औसत आवेदक 1560 थे। तथापि बाद में देखा गया कि एक केंद्र पर आवेदकों की गिनती 1747 के स्थान पर 1857 कर ली गयी। प्रत्येक केंद्र पर औसत आवेदकों की सही संख्या क्या थी(दो दशमलव तक)? | | | | |
|-------------------|---|--|-------------------------|---|--|
| A. 15 | 57.87 | B. 1558.20 | C. 1558.92 | D. 1559.51 | E. 1559.78 |
| 16. | | | | ो का योग 126 है , अगली (18 अधिक है तो 14वीं संख्य | 5 संख्याओं का औसत 46 और 11 है? |
| A. 130 | 0 | B. 140 | C. 135 | D. 142 | E. 125 |
| 17. | और 94% है | | | | वजन का क्रमशः 90%, 112% च का अंतर 75 किग्रा है। पाँच |
| A. 84 | किग्रा | B. 90 किग्रा | C. 76 किग्रा | D. 69 किग्रा | E. इनमें से कोई नहीं। |
| 18. | | | | दस साल बाद, पिता की आ पु के अंतर का अनुपात क्या है | यु बेटे की आयु का 2.5 गुना हो है? |
| A. 33 | | B. 35 | C. 37 | D. निर्धारित नहीं किया जा | सकता E. इनमें से कोई नहीं। |
| 19. | अंकों वाले ए | ह के औसत अंक 48 क नए छात्र को सूची <mark>ात अंकों</mark> में प्रतिशत वृी | में जोड़ा गया है। यी | दे समूह में छात्रों की संख्या | को हटा दिया गया है और 84 ा 8 थी, तो प्रारंभिक औसत के E. इनमें से कोई नहीं। |
| A. 6.2 | 25% | B. 5.75% | C. 8.25% | D. 6.75% | E. इनमें से कोई नहीं। |
| 20. | औसत आय् | | र्षों में इन कर्मचारियो | iं की औसत आयु क्या होगी [:] | ाम करने वाले कर्मचारियों की जबकि 10 कर्मचारी सेवानिवृत्त |
| $A.\frac{87}{13}$ | | B. $\frac{83}{7}$ | C. $\frac{86}{13}$ | D. $\frac{86}{3}$ | E. इनमें से कोई नहीं। |
| 21. | | | | | |
| A. Rs. | . 80 | B. Rs. 90 | C. Rs. 150 | D. Rs. 100 | E. इनमें से कोई नहीं। |
| 22. | परिवार की | औसत आयु क्रमशः १ | | | सरे बच्चे के जन्म के तुरंत बाद क्या है, अगर पूरे परिवार की |
| A. 6 ⁻ | वर्तमान आयु वर्ष | 15.2 वर्ष ह? B. 7 वर्ष | c. 8 वर्ष | D. 5 वर्ष | E. 4 वर्ष |

| 23. | | संख्या और निम्नतम संख | | | तो औसत 80 हो जाता है। आठ संख्याओं के योग का |
|--------------------|---|---|--|------------------------------|---|
| A. 12% | % | B. 20% | C. 18% | D. 24% | E. 15% |
| 24. | | | | | लड़कों का औसत योगदान केतने प्रतिशत छात्र लड़के |
| A.60% | 6 | B. 44% | C. 40% | D. 80% | E. इनमें से कोई नहीं। |
| 25. | लंड़का 10 चॉ | | छात्रों के साथ चॉकलेट व | _ |) चॉकलेट है। यदि प्रत्येक जाती है। लड़कों की कुल |
| A. 75% | % | B. 40% | C. 60% | D. 62.5% | E. इनमें से कोई नहीं। |
| 26. | 6. कंपनी ABC में, सबसे अच्छा प्रदर्शन करने वाली टीम ने बोनस जीता। सर्वश्रेष्ठ प्रदर्शन करने वाली टीम जिसे 20% का उच्चतम बोनस मिला और उसके कप्तान को उनकी टीम के बाकी सदस्यों के 4 गुना के बराबर बोनस मिला था। उस टीम के कुल सदस्यों का पता लगाएं जिसने बोनस जीता। | | | | |
| A. 20 | | B. 16 | C. 17 | D. 22 | E. इनमें से कोई नहीं। |
| 27. | 15 संख्याओं <mark>क</mark> औसत ज्ञात की | _ | पेक संख्या को पहले 6 से | गुणा किया जाये और फि | र 6 जोड़ दिया जाये तो नया |
| A. 122 | 2 | В. 38 | C. 162 | D. 96 | E. इनमें से कोई नहीं। |
| 28. | विवेक का औ रुपये खर्च किए | सत खर्च जून से नवंबर १। जुलाई से दिसंबर तक | तक 8550 रुपये है और ज्ञ का औसत खर्च है? | र उसने जून में 1850 रु | पये और दिसंबर में 2420 |
| A. Rs. | 8640 | B. Rs. 8645 | C. Rs. 8650 | D. Rs. 8675 | E. इनमें से कोई नहीं। |
| 29. | मोहन के स्थान | न पर आता है तो 10 ले | | 5 किलोग्राम बढ़ जाता है | ाता है, लेकिन अगर सोहन उपदि मोहन का वजन 55 |
| A. 65 | किग्रा | B. 70 किग्रा | C. 75 किग्रा | D. 80 किग्रा | E. इनमें से कोई नहीं। |
| 30. | | | है। 10 साल बाद परिवा चों को छोड़कर परिवार ग | | न्म हुआ, फिर परिवार की |
| A. 9 31. | _ | B. 7पेंसिल की औसत कीम5 पेंसिल की औसत की | | D. 10 की कीमत 7 पेंसिल की | E. इनमें से कोई नहीं। कीमत से 3 रुपये अधिक |

| A. Rs. | 10 | B. Rs. 11 | C. Rs.12.5 | D. Rs. 10.5 | E. इनमें से कोई नहीं। | | |
|--------|--|--|---------------------|------------------------|--|--|--|
| 32. | पहले छह छात्रों की औसत लम्बाई 170 सेमी है, अंतिम आठ छात्रों की औसत लम्बाई 175 सेमी है। कुल 16 छात्रों की औसत लम्बाई 180 सेमी है। बाकी दो छात्रों की औसत लम्बाई ज्ञात कीजिए। | | | | | | |
| A. 210 |) सेमी | B. 250 सेमी | C. 240 सेमी | D. 230 सेमी | E. 260 सेमी | | |
| 33. | | में प्रत्येक प्रशिक्षु का औ न 75 रु है। स्टार्टअप में | | प्रशिक्षुओं का औसत वेत | ान 708.75 रु है और शेष | | |
| A. 670 |) | B. 676 | C. 682 | D. 840 | E. इनमें से कोई नहीं। | | |
| 34. | • | में, 50 दिनों के लिए ह ।।मिल होते हैं। भोजन कि | _ | नन उपलब्ध है। 10 दिन | नों के बाद, 50 और छात्र | | |
| A. 42 | दिन | в. 32 दिन | C. 30 दिन | D. 40 दिन | E. इनमें से कोई नहीं। | | |
| 35. | है। यदि किसी | | न भी जोड़ दिया जाता | है, तो उन सभी का और | औसत वजन (x - 6) किग्रा तत वजन 5 किग्रा कम हो म है। | | |
| A. 74 | | В. 80 | C. 84 | D. 90 | E. 94 | | |
| 36. | | <mark>वर्ष बढ़</mark> जाती है। अगर क | | | यु को जोड़ने पर कक्षा की .8 साल है, तो कक्षा शिक्षक | | |
| A. 32 | वर्ष | в. 38 वर्ष | C. 44 वर्ष | D. 50 वर्ष E. निर्धा | रित नहीं किया जा सकता। | | |
| 37. | . गौरव का वेतन उसके भाई अमन का 166.67% है। अमन और गौरव ने अपने पिता को क्रमशः "x" महीने और "y" महीने का वेतन दिया। उनके पिता ने उनके बीच कुल राशि समान रूप से वितरित की, जिसमें से प्रत्येक को 126000 रु मिली। यदि x और y का अनुपात 5: 4 है, तो अमन और गौरव द्वारा उनके पिता को दी गई कुल राशि में क्या अंतर है? | | | | | | |
| A. Rs. | 35800 | B. Rs. 32000 | C. Rs. 36200 | D. Rs. 36000 | E. इनमें से कोई नहीं। | | |
| 38. | 88. A, B और C भाई हैं और उनके पास जितनी भी धनराशि है वे अपने पिता को दे देते हैं जो कुल धन को सभी के बीच समान रूप से वितरित करते हैं जैसे कि उनमें से प्रत्येक को 480 रुपये मिलते हैं। वितरण के बाद A के पास धन 75% हो जाता है, B 12/13 हो जाता है और C के पास उनकी संबंधित प्रारंभिक राशि 500/7% बढ़ जाती है। A और C की मूल राशि के बीच क्या अंतर था? | | | | | | |
| A. Rs. | 380 | B. Rs. 360 | C. Rs. 420 | D. Rs. 300 | E. इनमें से कोई नहीं। | | |
| 39. | 9. 2011 में वरुण, राहुल और प्रियंका का वजन 6: 5: 7 के अनुपात में था। 2011 की तुलना में 2016 में वरुण का वजन 150% हो गया, राहुल का वजन 160% हो गया और प्रियंका का वजन 300/7% बढ़ गया। अगर उनके वजन में औसत वृद्धि 7.2 किग्रा है, तो 2016 में वरुण के वजन और 2011 में प्रियंका के वजन में क्या अंतर है? | | | | | | |

| A. 5.0 | किग्रा | B. 4.8 किग्रा | c. 5.2 किग्रा | D. 4.6 किग्रा | E. इनमें से कोई नहीं। | | | |
|---------------------|---|--|---|------------------------|---|--|--|--|
| 40. | 0. एक कंपनी में 78000 कर्मचारी हैं जिनमें से पुरुष और मिहला क्रमश: 7: 6 अनुपात में हैं। पुरुषों में से 35% HR के रूप में काम कर रहे हैं और मिहलाओं में से 25% HR के रूप में काम कर रही हैं। कंपनी में HR के रूप में काम कर रहे कर्मचारियों की कुल संख्या क्या है? | | | | | | | |
| A. 38 | किग्रा | в. 36 किग्रा | C. 42 किग्रा | D. 44 किग्रा | E. इनमें से कोई नहीं। | | | |
| 41. | | | गमान 34° C है जबकि ब् C है। बुधवार को तापमा | | का औसत तापमान 38° C | | | |
| A. 36° | C | B. 38°C | C. 34°C | D. 32°C | E. इनमें से कोई नहीं। | | | |
| 42. | | | ोना है, 18 कैरेट सोना शुद सोने में शुद्ध सोने का अनु | | 0 कैरेट सोना शुद्ध सोने का | | | |
| A. 31. | 44 किग्रा | B. 32.03 किग्रा | C. 31.57 किग्रा | D. 33.12 किग्रा | E. इनमें से कोई नहीं। | | | |
| 43. | | 45 छात्रों का औसत वर्ज 11 दो नए छात्रों का औस | | कक्षा में शामिल हुए और | र कक्षा का औसत वजन 1 | | | |
| A. 16. | 5 किग्रा | B. 15.4 किग्रा | C. 14.2 किग्रा | D. 13.7 किग्रा | E. इनमें से कोई नहीं। | | | |
| 44. | _ | | औसत 48 है। एक अन्य था दूसरे सेट की अधिकत | | याओं के सेट का औसत 49 नफल क्या होगा? | | | |
| A. 322 | 23 | B. 2323 | C. 3232 | D. 2332 | E. इनमें से कोई नहीं। | | | |
| 45. | 30 दोस्तों के समूह की औसत आयु 34 वर्ष है। पहले 10 दोस्तों की औसत आयु 31 वर्ष और अंतिम 18 दोस्तों की औसत आयु 33 वर्ष है। 11 वें और 12 वें मित्र की औसत आयु क्या होगी? | | | | | | | |
| A. 52 | वर्ष | в. 54 वर्ष | C. 56 वर्ष | D. 50 वर्ष | E. 58 वर्ष | | | |
| 46. | एक अनुक्रम में ग्यारह पद हैं, जो क्रमागत सम पूर्णांक हैं। दूसरे और सातवें पद का औसत 15। सभी पदों का औसत ज्ञात कीजिए। | | | | | | | |
| A. 15 | | B. 16 | C. 17 | D. 18 | E. इनमें से कोई नहीं। | | | |
| 47. | (X - 4) छात्रों के समूह का औसत वजन (x + 5) किलोग्राम है। यदि 54 किलो वजन का शिक्षक कक्षा में शामिल होता है, तो समूह का औसत वजन 1 किलो बढ़ जाता है। शिक्षक को छोड़कर समूह में छात्रों की संख्या ज्ञात करें। | | | | | | | |
| A. 22 48. | | | | | | | | |

| A. 45 | B. 55 | C. 40 | D. 60 | E. इनमें से कोई नहीं। |
|-------|-------|-------|-------|-----------------------|
| | | | | • |

एक क्विज के 40 प्रतिभागियों की औसत आयु 20 वर्ष है। कुछ समय बाद 5 और प्रतिभागी उनसे जुड़े और फिर 49. औसत आयु में 3 वर्ष की वृद्धि हुई। 5 नए प्रतिभागियों की औसत आयु ज्ञात करें।

A. 47 वर्ष

B. 48 वर्ष

c. 50 वर्ष

D. 45 वर्ष E. 46 वर्ष

अपने फूटबॉल करियर में रोनी ने 10 मैचों में औसतन 12 गोल किए। अगर उसने पहले 4 मैचों में औसतन 11 **50**. गोल किए हैं और आखिरी 4 मैचों में औसतन 13 गोल किए हैं, तो बाकी 2 मैचों में उसके द्वारा बनाए गए गोलों के औसत का पता लगाएं।

A. 11 गोल

B 12 गोल

C. 13 गोल

For more PDFs join us on Telegram

CLICK HERE



SBI | RBI | IBPS | RRB | SSC | NIACL | EPFO | UGC NET | LIC | RAILWAY | CLAT | RJS

The Question Bank

CORRECT ANSWERS:

| 1 | D | 11 | Α | 21 | Α | 31 | D | 41 | Α |
|----|---|----|---|----|---|----|---|----|---|
| 2 | В | 12 | Е | 22 | С | 32 | D | 42 | В |
| 3 | С | 13 | Α | 23 | Е | 33 | В | 43 | Α |
| 4 | D | 14 | D | 24 | С | 34 | В | 44 | D |
| 5 | В | 15 | D | 25 | В | 35 | D | 45 | Ε |
| 6 | Е | 16 | В | 26 | С | 36 | Е | 46 | D |
| 7 | В | 17 | Е | 27 | С | 37 | D | 47 | Α |
| 8 | С | 18 | В | 28 | В | 38 | В | 48 | С |
| 9 | В | 19 | Α | 29 | С | 39 | В | 49 | Α |
| 10 | В | 20 | Е | 30 | Е | 40 | Α | 50 | В |



For more PDFs join us on Telegram

CLICK HERE



SBI | RBI | IBPS | RRB | SSC | NIACL | EPFO | UGC NET | LIC | RAILWAY | CLAT | RJS

Explanations:

1. Let the present age of Abhi's father, Abhi and Sunny be f, a and s respectively.

$$a + 7 = (s + 5) (1.25)$$

$$5s - 4a = 3 ...(i)$$

Also,

$$\frac{(f-5)+(a-5)}{2}=23$$

$$f + a = 56 \dots (ii)$$

Abhi was 4 years old when Sunny was 1 year old. Difference = 4 - 1 = 3 years

$$a - s = 3 \dots (iii)$$

Solving (i) and (iii)

$$s = 15 years$$

a = 18 years

$$f = 38 \text{ years}$$

Smartkeeda

The Question Bank

Sunny was 10 years old, 5 years ago

So, Abhi's father age 5 years ago was = 38 - 5 = 33 years

Hence, option D is correct.

2. The total students whose number was multiple of 2 = 25

The total students whose number was multiple of 5 = 10

The total students whose number was multiple of 5 and 2 both i.e. of 10 = 5

The total students whose number was either multiple of 2 or multiple of 5 = (25 + 10 - 5) = 30

It means, 30 students were selected and 20 students were not selected

The sum of the weight of all the students = $(56 \times 20 + 58 \times 30)$ kg = 2860 kg

The average weight of all the students = $\frac{2860}{50}$ = 57.2 kg

Hence, option B is correct.

3. Increase in the average marks of all six = 30% Difference between total marks of five students = 20% total marks in second test

For first five students,

Total marks in second test – Total marks in first test = 20% total marks in second test Or, Total marks in first in test = 0.8 × Total marks in second test Hence increase in Total marks of five students is 25%

Let the increase in the marks of 6th student from first test to second = k%

$$30\% = \frac{5 \times 25\% + 1 \times (k \%)}{6}$$

K = 55%

Let marks of sixth student in first test = 100p then marks in second test = 155p

Marks in first test miscalculated as 1/9 more, which means (1+1/9) or 10/9 of actual marks 100 p = $\frac{10}{9}$ (actual marks)

Actual marks = 90p

Actual increase in marks = (155p – 90p) = 65p

Increase in percent = $\frac{65p}{90p}$ = 72.22%

Hence, option C is correct.

4. Let the numbers be "ab" and "xy"

After they are written in reverse numbers will be "ba" and "yx"

As there is a increase of 27 marks in average the total increase in the total marks = $5 \times 27 = 135$ As rest of the numbers remain same the increase is only in the two numbers

$$10b + a + 10y + x - (10a + b + 10x + y) = 135$$

$$9 (b - a) + 9 (y - x) = 135$$

$$(b-a) + (y-x) = 15$$

Hence the sum of difference of the digits of the two numbers is 15

Ratio of incorrect number = 13:10

Multiplying both 13 and 10 by number like 5,6,7,8 etc we will get

$$13 \times 7$$
, $10 \times 7 = 91$, 70

91, 70 as only combination where the sum of difference of digits is 15 (9-1+7-0)

The original numbers are 19 and 07 and their sum = 19 + 7 = 26

Hence, option D is correct.

5. The age of Sania is (x - 5) years

As, Sania is 7 years older than Geeta

Geeta's age = x - 5 - 7 = (x - 12) years

Given that,

$$\frac{(x-5)+5}{x-12-2}=5:4$$

$$\frac{x}{x-14} = 5:4$$

$$4x = 5x - 70$$

$$x = 70$$

Sania's age = 65 years

Geeta's age = 58 years

Let the a<mark>ge of Bhavna</mark> be B years

Given that,

$$\frac{(B-1)}{65+3}=1:4$$

$$4B - 4 = 68$$

Bhavna's age = 18 years

Average age of Sania, Geeta and Bhavna

$$=\frac{65+58+18}{3}=47$$

Given that age of Simran is 1 year less than average age of other sisters.

martkeeda

The Question Bank

Simran's age = 46 years

Hence, option B is correct.

6. Sum of weight of P, Q, R and S = $67 \times 4 = 268 \text{ kg}$

Sum of weight of P, R, S and T = $63 \times 4 = 252 \text{ kg}$

Let, weight of Q = x kg

Then, weight of T will be (x - 16) kg

Weight of P = (x - 16 - 18) = (x - 34) kg

So,
$$x - 16 + x - 34 = 58 \times 2$$

$$2x = 116 + 50$$

$$x = 83$$

Therefore, weight of T = (83 - 16) = 67 kg

Reqd. average =
$$\frac{83 + 67}{2}$$
 = 75 kg

Hence, option E is correct.



7. Let the total number of students sent for the Olympiad be x.

Given that,

$$48x = 5 + 7 + 9 + 11 + (x - 4)50$$

$$2x = 168$$

$$x = 84$$

Hence, option B is the correct answer.

For more PDFs join us on Telegram

CLICK HERE



Given that,
$$\frac{S + A + V}{3} = \frac{76}{3}$$

$$S + A + V = 76 \dots (i)$$

$$\frac{S+2}{A+4} = \frac{9}{7}$$

$$\frac{A-3}{V-4} = \frac{3}{2}$$

Substituting the values in terms of A in (i)

$$S + A + V = 76$$

$$\Rightarrow \frac{9A + 22}{7} + A + \frac{2A + 6}{3} = 76$$

$$\Rightarrow 27A + \frac{66 + 21A + 1}{4A + 42} = 76 \times 21$$

$$\Rightarrow 62A = 1596 - 108$$

The Question Bank

$$\rightarrow$$
 62A = 1596 - 108

$$\rightarrow$$
 A = 24

Hence, option C is correct.

9. Total price paid = Rs 312

The original selling price of all three = 312 - 12 = 300

A profit of 11.11% on all three, SP =
$$\frac{10}{9}$$
 × CP

So, cost price of all three =
$$\frac{9}{10} \times 300 = 270$$

Average SP of other two = 75, total CP of other two = 150

CP of gift item = 270 - 150 = 120

Sold at a profit of 25%
$$\rightarrow$$
 SP = $\frac{5}{4} \times 120 = 150$

Sold after a discount of 16.67%
$$\rightarrow$$
 SP = $\frac{5}{6} \times$ MP \rightarrow MP = $\frac{6}{5} \times$ 150 = Rs 180

Hence, option B is correct.

10. Let the volume of each glass =
$$100k$$
, volume of four glasses = $4 \times 100k = 400k$

The volume of water in four glasses = $(30\% + 35\% + 88\% + 99\%) \times 100k = 252k$

All glasses are emptied and refilled to a volume of 60%, total volume of four glasses = $60\% \times 400K = 240k$

Remaining volume of water = (252k - 240k) = 12k

$$12k = 60ml \rightarrow k = 5ml$$

Total volume of water in glasses = 240 × 5ml = 1200ml

Hence, option B is correct.

11. Monday's payment = Rs. x

Tuesday's payment = Rs. (x + 3y)

Wednesday's payment = Rs. (x + 2y)

Thursday's payment = Rs.(x + y)

Friday's payment = Rs. (x + 2y)

$$\therefore \text{ Reqd. average} = \frac{5x + 8y}{5} = x + \frac{8y}{5}$$

Hence, option A is correct.

12. Height of 3 boys Bikesh, Sam and Suhas is $\frac{208}{3} \times 3 = 208$ inches.

Height of Bikesh, Vihal and Rakesh is

$$\frac{203}{3}$$
 × 3 = 203 inches.

With the help of this information, the height of 5 boys cannot be determined.

Hence, option (E) is correct.

13. Let, Speed on the fourth day = x

total speed for the first three days = A

& total speed for the last three days = B

Now,

Total speed for the week, $S = 47 \times 7 = 329$

Total speed for the first four days = $A + x = 37 \times 4 = 148$

Total speed for the last four days = $B + x = 52.5 \times 4 = 210$

According to the question,

$$A + x + B = S$$

$$\Rightarrow$$
 (A + x) + (B + x) - x = 329

$$\Rightarrow$$
 148 + 210 - x = 329

$$\Rightarrow$$
 x = 358 $-$ 329

$$\Rightarrow$$
 x = 29Km/h



Therefore, time taken to travel 203km = $\frac{203}{29}$ = 7 hours Hence, option A is correct.

14. Let the number of non-officers in office = x

Now, according to question-

$$\Rightarrow$$
 400x + 1040 × 30 = 500(30 + x)

$$\Rightarrow$$
 400x + 1040 × 30 = 500 × 30 + 500x

$$\Rightarrow$$
 100x = 30 (1040 - 500)

$$\Rightarrow$$
 100x = 30(540)

$$\Rightarrow$$
 x = 162

Reqd. average =
$$\frac{30 + 162}{2}$$
 = 96

Hence, option D is correct.

15. Number of applicants that have been counted extra = 1857 - 1747 = 110

Hence, decrease in average = 110 = 0.495

 \therefore Correct average = 1560 - 0.495 = 1559.505 = 1559.51

Hence, option D is correct.

16. Let 13th number is X.

Sum of fifteen numbers = $54 \times 15 = 810$

$$X + (X + 15) + (X + 18) = 810 - 126 - (46 \times 6) = 408$$

$$\Rightarrow$$
 3X + 33 = 375

$$\Rightarrow$$
 X = 125

$$\therefore$$
 14th number = 125 + 15 = 140

Hence, option B is correct.

17. Let the average weight of all five = 100k So, weight of A = 90k, B = 112k and C = 94k

Let the weight of D = d and that of E = e

$$\frac{90k + 112k + 94k + d + e}{5} = 100k$$

$$d + e = 204k$$

$$d: e = 6: 11 \rightarrow d = \frac{6}{17} \times 204 = 72k \rightarrow e = 132k$$

Difference = 132k - 72k = 60k

$$60k = 75$$

So,
$$k = \frac{75}{60} = 1.25$$

Average weight of all the five persons = 100 * 1.25 = 125kg Hence ,option E is correct.

18. Total marks obtained by 17 girls = $35 \times 17 = 595$

Let the marks obtained by 17 girls be(in ascending order) be:

$$(a - 8d)$$
, $(a - 7d)$, $(a - 6d)$, $(a - 5d)$, $(a - 4d)$, $(a - 3d)$, $(a - 2d)$, $(a - d)$, (a) , $(a + d)$, $(a + 2d)$, $(a + 3d)$, $(a + 4d)$, $(a + 5d)$, $(a + 6d)$, $(a + 7d)$, $(a + 8d)$

A = 35

Sum of 2^{nd} , 6^{th} , 9^{th} , 12^{th} and 16^{th} term = 5a =175

New average =
$$\frac{595 - 175}{12} = \frac{420}{12} = 35$$

Hence, option B is correct.

19. Let the sum of the marks of the unchanged 5 students from initial tally be equal to 'x', such that,

$$\frac{x + 43 + 68 + 51}{8} = 48$$
 (Given)

Then,

$$x = 384 - (43 + 68 + 51) = 384 - 162 = 222$$

With adding of a new student marks,

Sum of marks of 6 students becomes = x + 84 = 222 + 84 = 306

New Average =
$$\frac{306}{6}$$
 = 51

Percentage increase in average = $\frac{51 - 48}{48} \times 100$

$$=\frac{300}{48}=\frac{100}{16}=6.25\%$$

Hence, option A is correct.

For more PDFs join us on Telegram

CLICK HERE

The Question Bank



SBI | RBI | IBPS | RRB | SSC | NIACL | EPFO | UGC NET | LIC | RAILWAY | CLAT | RJS

20. Total employees in the company = 40

Average age of employees = 35

Total age of employees = $(40 \times 35) = 1400$

In next two years,

Total remaining employees = 40 - 10 = 30

Retirement age = 60 years

Total age of 30 employees after 2 years = $1400 + (40 \times 2) - (60 \times 10)$

$$= 1400 + 80 - 600 = 880$$

∴ Average age after two years = $\frac{880}{30} = \frac{88}{3}$ years

Hence, option E is correct.

21. Let the amount paid by each of Rajiv's friend be Rs x

Total amount paid by them in all = Rs. (145 + 12x)

Average amount that should have been paid by Rajiv's friends = 5 + x

$$\frac{145 + 12x}{13} = (x + 5)$$

x = 80

Hence, option A is correct.

For more PDFs join us on Telegram

CLICK HERE

The Question Bank



SBI | RBI | IBPS | RRB | SSC | NIACL | EPFO | UGC NET | LIC | RAILWAY | CLAT | RJS

22. Let the present age of father, mother and three children's be F, M, C1, C2 and C3.

When the first child was born, the age of the first child was 0.

Average = 16 sum of their age = 16x3 = 48

After n1 years, second child was born, the age of first child will be n1 years and age of second child be 0.

Average = 15.75, sum of their age = $15.75 \times 4 = 63$

Difference between the sum of their age after n1 years = 63 - 48 = 15

3n1 = 15

n1 = 5

After n_2 years, third child was born, the age of first child get increased by n_2 years, age of second child will be n_2 years, age of third child is 0.

Average = 14.2, sum of their age = $14.2 \times 5 = 71$

Difference between the sum of their age after n2 years = 71 - 63 = 8

 $4n_2 = 8$

 $n_2 = 2$

After n3 years, average is 15.2 years, sum of their age = $15.2 \times 5 = 76$ Difference between the sum of their age after n3 years = 76 - 71 = 5

 $5n_3 = 5$

 $n_3 = 1$

First child was born 1 + 2 + 5 = 8 years ago.

Hence, option C is correct.

So the age of the first child is 8 years.

For more PDFs join us on Telegram

CLICK HERE

The Question Bank



SBI | RBI | IBPS | RRB | SSC | NIACL | EPFO | UGC NET | LIC | RAILWAY | CLAT | RJS

23. Average of Eight numbers is 75

Total of Eight Numbers = $75 \times 8 = 600$

Highest and Lowest Score removed, Average = 80

Total Remaining Six Numbers = $80 \times 6 = 480$

Sum of Highest and Lowest Number = 120

Ratio of Lowest and Highest Number is 1:3.

Highest Number =
$$\frac{3}{4} \times 120 = 90$$

Reqd.
$$\% = \frac{90}{600} \times 100 = 15\%$$

Hence, option E is correct.

24. Let the number of boys = x and the number of girls = y then 250x + 100y = 160(x + y)90x = 60y

The reqd.
$$\% = \frac{2 \times 100}{5} = 40\%$$

Hence, option C is correct.

Let the number of boys = x and the number of girls = y 25. The total number of chocolates the boys have = 240xThe total number of chocolates the girls have = 180y

If each of the boys eat 10 chocolates then the remaining number of chocolates, the boys will have = 240x - 10x = 230x

The sum of the all the chocolates = 200(x + y) = 230x + 180y20y = 30x: y = 2 : 3

The reqd. percentage =
$$\frac{2 \times 100}{5}$$
 = 40%

Hence, option B is correct.

26. Let the total bonus be 100x

Total members = n

$$20x = \frac{4 (80x)}{n-1}$$

Hence, option C is correct.

27. Sum of 15 numbers = 15×26

> When each number is multiplied by 6 then the sum will become = $15 \times 26 \times 6$ Now, when each number is increased by 6 then sum = $15 \times 26 \times 6 + 15 \times 6$

Reqd. average =
$$\frac{15 (26 \times 6 + 6)}{15}$$
 = $26 \times 6 + 6 = 162$

Hence, option C is correct.

28. Total Expenditure of Vivek from June to November = Rs. 8550 × 6 = Rs. 51300 Total Expenditure of Vivek from July to November = Rs. (51300 – 1850) = Rs. 49450 Total Expenditure of Vivek for the July to December = Rs. (49450 + 2420) = Rs. 51870 Hence, the average expenditure for the months of July to December

$$=\frac{51870}{6}$$
 = Rs. 8645

Hence, option B is correct. Smartkeeda

29. Let the average weight of 10 persons is x kg

Then the sum of the weight of 10 persons = 10x kg

Let the Ram's weight is R and Sohan's weight is S then

Case I: When Ram comes in place of Mohan

$$10x - 55 + R = 10(x + 2.5)$$

$$R = 10 \times 2.5 + 55 = 25 + 55 = 80 \text{ kg}$$

Case II: When Sohan comes in place of Mohan

$$10x - 55 + S = 10(x + 3.5)$$

$$S = 35 + 55 = 90 \text{ kg}$$

The average weight of Ram, Mohan, and Sohan

$$=\frac{80+55+90}{3}=\frac{225}{3}=75 \text{ kg}$$

Hence, option C is correct.

30. Let the number of members in the family = x

Total age of the family = $x \times 35$ years

After 10 year, the sum of the age will become = 35x + 10x = 45x

When twins were born, the number of members in the family = x + 2 and the sum of the age of the family = $(x + 2) \times 36 = 36x + 72$ years

$$45x = 36x + 72$$

$$9x = 72$$

x = 8 (Total how many members is in the family except twins)

Hence, option E is correct.

31. Let the price of one pen = Rs. x and the price of one pencil = Rs. y

Then,
$$5x + 15y = 8.5 \times 20 = 170$$
 ----- (i)

$$4x - 7y = 3$$
 ----- (ii)

Solve equation (i) and (ii)

$$x = 13$$
 and $y = 7$

The price of 7 pens and 5 pencils = Rs. $(7 \times 13 + 5 \times 7)$ = Rs. (91 + 35) = Rs. 126

The reqd. average =
$$\frac{126}{12}$$
 = Rs. 10.5

Hence, option D is correct.

The Question Bank

32. Sum of the heights of the first six students = $170 \times 6 = 1020$ cm Sum of the heights of the last eight students = $175 \times 8 = 1400$ cm

Sum of the heights of the total 16 students = $180 \times 16 = 2880$

Sum of the height of the left 2 students = 2880 - 1020 - 1400 = 460

Average height of the left 2 students =
$$\frac{460}{2}$$
 = 230 cm

Hence, optiono D is correct.

33. Total salary of trainees = $16 \times 708.75 = Rs. 11,340$

Let there be x trainees.

$$\therefore$$
 Total salary = Rs. (90x) and salary of remaining trainees = Rs. [75(x - 16)]

$$\therefore 90x = 11340 + 75x - 1200$$

$$\therefore$$
 15x = 10140 i.e. x = 676

Hence, option B is correct.

34. Man days for which food is available = $200 \times 50 = 10000$

Available food is enough for 1 student for 10000 days

Food used by 200 students in 10 days = 200×10 man days of food = 2000

Man days of food left = 10000 - 2000 = 8000 man days of food

Total number of students now = 200 + 50 = 250

Remaining food can be used for 250 students for

$$=\frac{8000}{250}$$
 days = 32 days

Hence, option B is correct.

So, total weight of P, Q and S = 5(x + 6) - 2(x - 6) = (3x + 42) = 3(x + 14)

Weight of
$$U = (x + 6 - 5) \times 6 - 5 (x + 6) = 6 (x + 1) - 5 (x + 6) = (x - 24) \text{ kg}$$

According to the question,

$$[3(x+14)+(x-24)]=94.5\times4$$

$$4x + 18 = 378$$

$$4x = 360$$
; $x = 90$

Hence, option D is correct.

36. Sum of the ages of the 15 students in the class = $24 \times 15 = 360$ years

Sum of the ages of 15 students along with class teacher and principal = $26 \times 17 = 442$ years

Sum of the ages of the class teacher and the principal = (442 - 360) years = 82 years

So, the age of the class teacher

= either
$$\frac{82+18}{18}$$
 or $\frac{82-18}{2}$ = either 50 years or 32 years

Exact age of the class teacher cannot be determined.

Hence, option E is correct.

37. Salary of Gaurav = 166.67 % Salary of Aman

$$\frac{\text{Salary of Gaurav}}{\text{Salary of Aman}} = \frac{5}{3}$$

Let salary of Gaurav and Aman be 5k and 3k

The ratio of the months for Aman and Gaurav = x : y = 5 : 4

Let x and y be 5p and 4p

Total amount = 2 × 126000 = Rs. 252000

$$\frac{(5k \times 4p + 3k \times 5p)}{} = 252000$$

Difference of total amount = $(5k \times 4p - 3k \times 5p) = 5kp = 5 \times 7200 = 36000$ Hence, option D is correct.

For more PDFs join us on Telegram

CLICK HERE



SBI | RBI | IBPS | RRB | SSC | NIACL | EPFO | UGC NET | LIC | RAILWAY | CLAT | RJS

38. Let the original amount with A, B and C be Rs. a, Rs. b, and Rs. c respectively

The money with each of the three after distribution = Rs. 480

So, the total amount of money with all three = 3×480 = Rs. 1440

The amount with A becomes 75% of the initial amount \rightarrow 480 = 75% (a)

$$a = \frac{4}{3} \times 480 = 640$$

The amount with C becomes 500/7% more than initial amount $\rightarrow 480$

$$=\frac{12}{7}$$
 × (c) \Rightarrow c = $\frac{7}{12}$ × 480 = 280

The original amount with A = Rs. 640 and that with C = Rs. 280

Required difference = Rs. (640 - 280) = Rs. 360

Hence, option B is correct.

39. In 2011, let the weight of Varun, Rahul and Priyanka be 6k, 5k and 7k

In 2016 weight of Varun became 150% ; weight of Rahul became 160% and the weight of Priyanka increased by $400/7\,\%$

So, new weight of Varun =
$$\frac{150}{100} \times 6k = 9k$$

Weight of Rahul =
$$\frac{160}{100} \times 5k = 8k$$

Weight of Priyanka =
$$\frac{1000/7}{100} \times 7 \text{ k} = 10 \text{ k}$$

| Year | Varun | Rahul | Priyanka | |
|------|-------|-------|----------|------------------|
| 2011 | 6k | 5k | 7k | he Question Bank |
| 2016 | 9k | 8k | 10k | |

There is a change of 3k in the weight of each of them. So the change in average weight will also be 3k. $3k = 7.2kg \rightarrow k = 2.4 kg$

Difference between weight of varun in 2016 and weight of Proyanka in 2011 = 9k - 7k = 2k

$$2k = 2 \times 2.4 = 4.8 \text{ kg}$$

Hence, option B is correct.

40. Ratio of recorded weight A : B : C= 13 : 6 : 5

Let the recorded weight be A, B and C be 13k, 6k and 5k

The average weight of all three

$$=\frac{13k+6k+5k}{3}=\frac{24k}{3}=8k$$

$$8k = 56 \rightarrow k = 7$$

Weight of A = 13k which is 44.44% (4/9) more than original. So, original weight

$$= \frac{9}{13} \times 13k = 9k$$

Weight of B = 6k, which is 14.28% (1/7) less than original.

So, original weight =
$$\frac{7}{6} \times 6k = 7k$$

Weight of C = 5k, which is 33 kg more than the original. So, original weight = 5k - 33

Original total weight of all three = $(9k + 7k + 5k - 33) = 21k - 33 = 21 \times 7 - 33 = 114$

Original average weight of all three = $\frac{114}{3}$ = 38 kg

Hence, option A is correct.

41. Sunday + Monday + Tuesday + Wednesday = 4 × 34 = 136°C
Wednesday + Thursday + Friday + Saturday = 4 × 38 = 152°C
Sunday + Monday + Tuesday + Wednesday + Thursday + Friday + Saturday = 7 × 36 = 252°C
Wednesday = (136 + 152 - 252)°C = 36°C

Hence, option A is correct.

42. Sum of the actual weights of all the students in the class = $65 \times 32 - 30 - 36 + 26 + 42$ = 2080 - 66 + 68 = 2082

Actual average weight of 65 students of the class = $\frac{2082}{65}$ = 32.03 kg

Hence, option (B) is correct.

43. Sum of the ages of 45 students = (45×40) Kg = 1800 Kg

Sum of the ages of 47 students = (47×39) Kg = 1833 Kg

Sum of the ages of two new students = (1833 - 1800) Kg = 33 kg

Average weight of the two new students = $\frac{33}{2}$ Kg = 16.5 Kg

Hence, option A is correct.

44. Average of n consecutive even/odd numbers

- \Rightarrow a = first number + (n 1)
- \Rightarrow 48 = first number + (5 1)
- ⇒ first number = 44

Even numbers are: 44, 46, 48, 50, 52

And

- a = first number + (n 1)
- \Rightarrow 49 = first number + (5 1)
- \Rightarrow first number = 45

Odd numbers are: 45, 47, 49, 51, 53 Required product = 44 × 53 = 2332

Hence, option (D) is correct.

45. The average age of 30 friends = 34 years Sum of the ages of 30 friends = $34 \times 30 = 1020$ years

The average age of the first 10 friends = 31 years Sum of the ages of the first 10 friends = $31 \times 10 = 310$ years

The average age of the last 18 friends = 33 years Sum of the ages of the last 18 friends = $33 \times 18 = 594$ years

Now the sum of the ages of the 11^{th} and 12^{th} friend = (1020 - 310 - 594) = 116

Average of the age of 11th and 12th friend =
$$\frac{116}{2}$$
 = 58 years

Hence, option E is correct.

46. Since the terms are consecutive even integers, they will be of the form a, a + 2, a + 4, etc.

Let the middle term (sixth term) be a and all the terms be:

$$a - 10$$
, $a - 8$, $a - 6$, $a - 4$, $a - 2$, a , $a + 2$, $a + 4$, $a + 6$, $a + 8$, and $a + 10$.

∴ The average of all the 11 terms is (
$$a - 10 + a - 8 + a - 6 + a - 4 + a - 2 + a + a + 2 + a + 4 + a + 6 + a + 8 + a + 10$$
)/11 = a.

Now, the second term is a - 8, and the seventh term is a + 2.

∴ Their average =
$$\frac{2a-6}{2}$$
 = $a-3$

∴
$$a - 3 = 15$$

∴ The average of all the term is 18.

Hence, option D is correct.

47. Total weight of the group = $(x - 4) \times (x + 5)$ kg

Weight of class teacher = 54 kg

According to the question,

$$\frac{\{(x-4)(x+5)+54\}}{\{(x-4)+1\}} = (x+5)+1$$

$$\{(x-4)(x+5)+54\} = (x+5)(x-4)+(x-4)+(x+5)+1$$

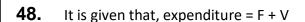
Smartkeeda

$$54 = 2x + 2$$

$$2x = 52$$
; $x = \frac{52}{2} = 26$

So, strength of the group = 26 – 4 = 22

Hence, option A is correct.



From the condition given we can say that,

$$(110)(50) = F + 50k$$
 ...(i)

$$(80)(80) = F + 80k$$
 ...(ii)

On solving (i) and (ii) we get,

$$F = 4000 \text{ and } k = 30$$

Now,

130x = 4000 + 30x, where x is the number of members

$$\therefore x = 40$$

Hence, option C is correct.

49. Total age of the 40 participants = $40 \times 20 = 800$

Total age of the 45 participants = $45 \times 23 = 1035$

Total age of the 5 new participants = 1035 - 800 = 235

Average age of the 5 new participants

$$=\frac{235}{5}$$
 = 47 years

Hence, option A is correct.

50. Ronny scored 12 average goals in 10 matches.

Sum of the number of goals in 10 matches = $12 \times 10 = 120$ goals Sum of the number of goals in the first 4 matches = $11 \times 4 = 44$ goals

Sum of the number of goals in the last 4 matches = $13 \times 4 = 52$ goals

Sum of the number of goals in the remaining 2 matches = 120 - 44 - 52 = 24

Reqd. average =
$$\frac{24}{2}$$
 = 12 goals

Hence, option B is correct.



Presents

TestZone

India's least priced Test Series platform



ALL BANK EXAMS

2020-2021 Test Series

@ Just

₹599/-300+ Full Length Tests

- ☑ Brilliant Test Analysis
- **☑** Excellent Content
- ☑ Unmatched Explanations

JOIN NOW