Average Questions for Bank Prelims Exam

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Average Questions for Bank Prelims Exam

Average

1. Average age of four member of A's family 4 years ago is 32.Three years ago a new baby born. What is the average age of A's family after 5 years?

A.96.31

B.36.9

C.25.3

D.14.3

E.34.4

2. A man bought 15 items at Rs.120 each, 13 items at Rs 110 each, and 12 items at Rs.130.Find average cost of item?

A.1723.3

B.1423.36

C.12.36

D.119.75

E.147.36

3. Average of ten numbers is 30.Later on it was observed that 15, 23 are wrongly taken as 51,32. Find the correct average?

A.21.3

B.14.6

C.25.5

D.6.6

E.23.3

4. The average expenditure of a man for the first six month is Rs.12000 and for the next six months is Rs.10000.If save 14000 in that year the find average monthly income?

A.1443.6

B.12166.66

C.5636.36

D.147.36

E.1236.36

5. The average of 7 consecutive numbers is 34. Then find largest of these number?

A.37

B.48

C.47

D.48

E.39

6. Average price of 42 pens is Rs.82, highest price of a pen is 150.What is the price lowest price of a pen if average of others 40 pen prices is 81?

A.66

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B.50

C.62

D.95

E.54

7. There are 100 students in three departments [X, Y and Z] of a college. Average marks of all the student is 82.7. Average marks of X and Z is 83. Average marks of Y are 82, then find number of students in Y?

A.51

B.78

C.47

D.30

E.39

8. The average of $1^{st}, 2^{nd}, 3^{rd}$ number is 20 average of $2^{nd}, 3^{rd}$ and 4th is 25. If 4th number is 25 then find value of first number ?

A.21

B.29

C.10

D.17

E.14

9. What is the average of prime numbers between 1 and 30?

A.13.6

B.12.9

C.18.9

D.15.6

E.12.3

10. The average of 25 results is 20.The average of first 12 results is 15 and that of the last 12 results is 18. Then find the 13th result?

A.104

B.159

C.123

D.147

E.1147

11. Average weight of 42 students is 54kg. A new student come and average weight of whole class increases by 1kg.What is the weight of the new student?

A.112

B.101

C.99

D.14

E.97

12. The average earning of a mechanic for the first four days of a week is rs.18 and for the last four days

is Rs.22. If he earns Rs 20 on the Fourth day, his average earning for the whole week is-

A.20

B.45

C.38

D.36

E.39

13. A person goes to a certain place at the speed of 4kmph. He returns on bicycle at the speed of 16kmph .Find his average speed during the whole journey -

A.3.63

B.9.6

C.6.4

D.6.3

E.4.5

14. The average marks of 50 students in a class is 78.The average marks of boys and girls is 77 and 79 respectively. Then find number of boys of the class?

A.36

B.25

C.96

D.27

E.36

15. In a joint family the average age of grandparents is 67 years, the average age of parents is 35 years and age of grand children is 6 years. What is the average age of the family?

A.42

B.69

C.36

D.49

E.41

16. The average age of a class of 15 boys is 11 years. If 5 new boys having average age of 9 years join the class, then the average age of the class becomes-

A.1.2

B.3.3

C.9.6

D.4.6

E.10.5

17. If the average temperature of first four days of week was 39° C and the average temperature of the week was 40ºC, then what was the average temperature of the last three days of the week?

A.63.3

B.12.3

C.40.3

D.41.33

E.14.3

18. The average temperature of the first three days is 27°c and that of the next three days is 29°c. If the average of the entire week is 28.5°c, then the temperature of the last day is-

A.12.3

B.22.5

C.31.5

D.3.3

E.336

19. The average of 30 results is 20 and that of other 20 results is 30. What is the average of all the results?

A.23

B.24

C.28

D.15

E.14

20. If the average of 12, 13, 14.5, 16.8, X, 11.5 is 13.4. Then find the value of X?

A.12.6

B.103

C.14.6

D.10.3

E.11.3

21. If the difference between the average of 1st, 2nd and 2nd, 3rd is 12, then find the difference between 1st and 3rd number?

A.11

B.19

C.17

D.14

E.24

22. The average of 8 numbers is 14.The average of 6 of these numbers is 16.What is the average of the remaining two numbers?

A.11

B.12

C.4

D.8

E.7

23. The average marks of 30 students in class is 47.While checking two errors were noticed after correction, one student got 45 marks more and others 12 marks less. What is correct average?

A.10.3

B.22.36

C. 45.9

D.26.3

E.22

24. Average age of 32 students in a class is 14 years. The age of their teacher is 41 years, what is the average age of the students and teacher combined?

A.11.3

B.14.81

C.14.36

D.14.17

E.14

25. Average age of 10 children is 9 years. The average age of 9 children is 8.8 years. What is the age of tenth child?

A.10.8

B.12.3

C.11

D.14.6

E.11.2

26. Average age of father and six children is 14 years, which is reduced by 4 years if the age of father is excluded. Find the age of father?

A.41

B.39

C.36

D.35

E.38

27. The average age of three boys is 15 years. If their ages are in the ratio 3:5:7. What is the age of the youngest one?

A.12

B.15

C.77

D.9

E.8

28. The average weight of X,Y and Z is 58.If average weight of X and Y is 52 and Y and Z is 59 then find weight of Y?

A.59

B.57

C.48

D.55

E.52

29. The batting average of a cricket player for 64 innings is 62 runs. His highest score exceeds his lowest score by 180 runs. Excluding these two

innings the average of remaining innings becomes 60 runs. What was his highest score?

A. 236

B. 214

C. 258

D. 159

E. 147

30. Average age of 5 boys is 14 years. Average 3 other is 19 years. Find the average age of all 8 boys?

A. 15.875

B. 11.36

C. 147.36

D. 136.36

E. 14.25

31. P,Q,R,S, and T are five consecutive odd numbers. What is their average?

A. 1

B. R-2

C. R+2

D. 5

E. R

32. The average of three number is 84. If another number is included the average becomes 80. If another number is included which is 3 more than 4th

number replace the 1st number then average of four number becomes 79. Find the value of 1st number?

A. 12

B. 11

C. 9

D. 75

E. 3

33. Average age of 40 students of a class is 13 years. When 10 new students are admitted the average is increased by 0.2 year. Find average age of the new students?

A. 22

B. 21

C. 14

D. 16

E. 11

34. A batsman had a certain average of runs for his 11 innings. In the 12th innings, he made a score of 80 runs and there by his average of runs was increased by 5. What is his average in 12th innings?

A. 21

B. 25

C. 36

D. 32

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E.22

35. What is the average of the series?

11.32, 5.12, 7.36, 4.26, 8.23, 7, 0.31, 88.23.

A.16.47

B.12.3

C.12.3

D.15.6

E.14.3

36. The average weight of 12 parcels is 1.7kg Addition of another new parcel reduces the average weight by .1kg.What is weight of new parcel?

A. .1

B. .3

C. .2

D. .2

E. .4

37. Average run of a player in 12 innings was 46. How many runs must be he make in his next inning so as increase his average of runs by 4?

A.36

B.63

C.97

D.98

E.36

38. A boy found that the average of 20 numbers is 34.When he mistakenly writes a number 41 instead of 19. Find the correct average of 20 numbers?

A.32.3

B.35.6

C.32.9

D.36

E.33

39. Among three numbers, second is twice the first and also thrice the third. The average of the three numbers is 33. Then the largest number is?

A.50

B.54

C.59

D.55

E.52

40. The average of runs scored by a cricketer in his 99 innings is 99. How many runs will he have to score in his 100th innings so that his average of runs in 100 innings will be 100?

A.199

B.153

C.123

D.159

E.147

41. Total age of 34 girls is 967. The average of first 25 of them is 17 years than find average age of others girls?

A.6.3

B.69.3

C.63.3

D.36.3

E.60.2

42. Six table and eleven chairs were brought in 9600. Average price of chair is 550, then find average table price?

A.741.3

B.447

C.569

D.591.6

E.369

43. Average age of 32 boys is 14 years and average age of 28 girls is 13 years. What is average age of whole class?

A.11

B.14.3

C.13.53

D.12.3

E.11.3

44. The sum of five numbers is 984. The average of first two numbers is 292 and the average of last two numbers is 198.What is the third number?

A.6

B.4

C.3

D.2

E.1

45. Total marks obtained by a student in Math, Science and English together is 120 more than marks obtained by him in English. What are the average marks obtained by him in others two subject?

A.60

B.74

C.69

D.63

E.61

46. Average weight of 45 students in a class was calculated as 36kg. Later it founded that weight of two student take as wrong data. Taking 34 kg instead of 32 kg and taking 44 kg instead of 46kg. Find actual average?

A.33

B.30

C.39

D.35

E.36

47. Average marks in math subject of a class of 22 students are 72. If the marks of three were misread as 44, 53 and 56 of the actual marks 49, 51, and 60 respectively, then what would be the correct average?

A.73.3

B.74

C.77

D.72.3

E.23.3

48. The sum of three consecutive odd numbers is 657. Also average of four consecutive even numbers is 84. What is the sum of smallest odd number and second largest even number?

A.222

B.202

C.239

D.269

E.214

49. 5 boys and 4 girls spend Rs.175 on the average. Boys spend Rs.150 on a average then find average amount spend by the girls

A.21.3

B.206.25

C.47.36

D.69

E.23

50. The respective ratio between the present age of A,B and C is 3:4:5. If the average of their present ages is 28 year then what would be the sum of the ages of A and B after 3 year?

A.55

B.69

C.88

D.56

E.54

Answer with Explanations:

Q1) Answer E

Total age of A's family 4 years ago is =32*4=128

Total age of five member of A's family now is=128+16+3=147

Total age of all member after 5 years is=172

So average age is=172/5=34.4 years

Q2) Answer D

Total amount spend by the man is

=15*120+13*110+12*130=4790

Total item brought by the man is=15+13+12=40

So average cost of the item is=4790/40=119.75

Q3) Answer C

Total sum of ten numbers is =30*10=300

Now 15 and 23 wrongly taken as 51 and 32

So total sum is now =300-51-32+15+23=255

So new average is =255/10=25.5

Q4) Answer B

Total expenditure in first 6 months

is=12000*6=72000

Total expenditure in last 6 month

is=10000*6=60000

Total income of the man in a year is

=72000+60000+14000=146000

So average income in a month is

=146000/12=12166.66

Q5) Answer A

Let seven consecutive number is = X,

X+1,X+2,X+3,X+4,X+5,X+6

So according to the question,

X+X+1+X+2+X+3+X+4+X+5+X+6=34*7=238

Or, 7X=238-21=217

Or, X=217/7=31

So largest number is=31+6=37

Q6) Answer E

Total price of 42 pens is=42*82=3444

Total price of 42 pens is=40*81=3240

So total price of highest and lowest price pen

is=204

Price of highest price pen is=150

Lowest price pen is 204-150=54

Q7) Answer D

Total marks of 100 students is 100*82.7=8270

Let, the number of student in department Y is a, so

number of student in X and Z department is=100-a

So according to the question,

82a+ (100-a)*83=8270

Or,-a=-30

Or, a=30

So number of student in Y is 30.

Q8) Answer C

Total sum of 1st,2nd and 3rd is=20*3=60

Total sum of 2nd,3rd and 4th is=25*3=75

4th number is 25 so 2nd +3rd =50

So 1st number is =60-50=10

Q9) Answer B

Sum of prime number between 1 to 30 is

=2+3+5+7+11+13+17+19+23+29=129

Total number of prime number is 10

So average is=129/10=12.9

Q10) Answer A

Sum of 25 results is=25*20=500

Sum of first 12 results is=12*15=180

Sum of last 12 results is=12*18=216

So 13th result is=500-180-216=104

Q11) Answer E

Total weight of 42 students is =54*42=2268

Total weight of 43 students is=55*43=2365

So weight of new student is=2365-2268=97

Q12) Answer A

Total earning first four days=18*4=72

Total earning in last four days=22*4=88

Earning on fourth days =20

Total earn in 7 days is=72+88-20=140

So average earning in five days is=140/7=20

Q13) Answer C

Let the distance is D km

So he goes with speed in 4kmph

So time taken D/4 hr

He come back with speed 16kmph

So time taken=D/16 hr

Average speed = total distance/ total time=

[2D/(D/4+D/16)]=6.4kmph

Q14) Answer B

Total marks of 50 students is=78*50=3900

Let boys is x and girls is 50-x

77x+79(50-x)=3900

Or, -2x=-50

Or, x=25

Number of boys is 25.

Q15) Answer A

Total age of grandparents is=67*2=134

Total age of parents=35*2=70

Total age of five members is=134+70+6=210

Average age is=210/5=42

Q16) Answer E

Total age of 15 boys is =15*11=165

Total age of 20 boys is=165+5*9=165+45=210

So new average=210/20=10.5

Q17) Answer D

Total temperature of first four days=39*4=156

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Total temperature of the week is=40*7=280

Total temperature of last three days=280-156=124

Average temperature of last three days

=124/3=41.33

Q18) Answer C

Total temperature of first three days=27*3=81

Total temperature of next three days=29*3=87

Total temperature of the week is=28.5*7=199.5

Last day temperature is =199.5-81-87=31.5

Q19) Answer B

Total sum of 30 results is=30*20=600

Total sum of 20 results is=20*30=600

Total sum of 50 result is=600+600=1200

So average of 50 result is=1200/50=24

Q20) Answer A

Sum of the number of series,

12+13+14.5+16.8+X+11.5=13.4*6=80.4

Or, 67.8+X=80.4

Or, X=80.4-67.8=12.6

Q21) Answer E

Let the 1st number is a, 2nd number is b and 3rd number is c.

Accrediting to the question,

(a+b)/2 – (b+c)/2=12

Or, a+b-b-c=24

Or, a-c=24

So difference of first and third number is 24

Q22) Answer D

Sum of 8 numbers is =14*8=112

Sum of 6 number is=6*16=96

So sum of remaining two is=112-96=16

So average of remaining two is=16/2=8

Q23) Answer C

Total marks of 30 students is=47*30=1410

After correction total marks of 30 student is=1410-45+12=1377

So new average of 50 student is =1377/30=45.9

Q24) Answer B

Total age of 32 student of the class is=32*14=448

Total age when teacher included is=448+41=489

So average when teacher included is=489/33=14.81

Q25) Answer A

Total age of 10 children is =10*9=90

Total age of 9 children is=9*8.8=79.2

Age of 10th children is=90-79.2=10.8

Q26) Answer E

Total age of father and six children is=7*14=98

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Total age of six children is=6*10=60

So age of father is98-60=38

Q27) Answer D

Total age of three boys is 15*3=45

So their age is3x, 5x, 7x

So 15x=45, x=3

So, age of youngest one is=3*3=9

Q28) Answer C

Total weight of X,Y and Z is=58*3=174

Total weight of X and Y=52*2=104

So weight of Z is=70

Total weight Y and Z is=59*2=118

So weight of Y is=118-70=48

Q29) Answer B

Total run in 64 innings is=64*62=3968

Total run in 62 innings is=62*60=3720

So highest score +lowest score =3968-3720=248

Let lowest runs is x, so highest runs is=180+x

So, x+x+180=248

So,2x=68 or, x=34

Highest score is=180+34=214

Q30) Answer A

Total age of 5 boys is=14*5=70

Total age of 3 boys is =19*3=57

Total age of 8 boys=70+57=127

So average age is =127/8=15.875

Q31) Answer E

Let, P=R-4,Q=R-2,S=R+2,T=R+4

So , average is=(P+Q+R+S+T)/5=R-4+R-2+R+R+4+R+2/5=5R/5=R

Q32) Answer D

Let three number is a, b and c

So, (a+b+c)=84*3=252

New number is d

So ,a+b+c+d=80*4=320

New number is e=d+3

So, b+c+d+d+3= 79*4=316

So, b+c+2d=313

(a+b+c+d)- (a+b+c) = 320-252= 68

b+c= 313-136= 177

so, a=252-177=75

Q33) Answer C

Total age 40 students is=40*13=520

Now total age of 50 students is=50*(13+0.2)=660

So total age of 10 student is=660-520=140

Average age of ten students is=140/10=14

Q34) Answer B

Let the average is x

So, total run in 11 innings is=11x.

Total run in 12 innings is=11x+80

According to the question,

12(x+5)=11x+80

So, x=80-60=20

So his average after 12th innings is=25

Q35) Answer A

Sum of series

is=11.32+5.12+7.36+4.26+8.23+7+.31+88.23=131.83

Total number in the series is=8

So average is=131.83/8=16.47

Q36) Answer E

Total weight of 12 parcel is=12*1.7=20.4

Average weight of 13 parcel is=1.8-.1=1.6

Total weight of 13 parcel is=13*1.6=20.8

Weight of the new parcel is=20.8-20.4=.4

Q37) Answer D

Total run in 12 innings is=46*12=552

Total run in 13 innings is=50*13=650

So run in next innings is=650-552=98

Q38) Answer C

Sum of 20 number is=34*20=680

Correct sum is=680-41+19=658

So new average is=658/20=32.9

Q39) Answer B

Let first number is 3x, so second number is=6x, so

third number is 6x/3=2x.

So, 3x+6x+2x=99

So, x=99/11=9

Largest number is=9*6=54

Q40) Answer A

Total run in 99 innings is=99*99=9801

Total run in 100 innings is=100*100=10000

So runs in 100 innings is=10000-9801=199

Q41) Answer E

Total age of first 25 students is=25*17=425

Total age of others girls is=967-425=542

So average age of 9 girls is=60.2

Q42) Answer D

Total price of 11 chair is=11*550=6050

Total price of six table is=9600-6050=3550

Average price of chair is=3550/6=591.6

Q43) Answer C

Total age of 32 boys is 32*14==448

Total age of 28 girls is=28*13=364

Total age of 60 student is=448+364=812

So average is=812/60=13.53

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Q44) Answer B

Sum first two number is =292*2=584

Sum of last two number is=198*2=396

Third number is=984-584-396=4

Q45) Answer A

Let marks in English is= x

So, math+science+x=x+120

So, math+science=120

So average marks these subject =120/2=60

Q46) Answer E

Total weight of 45 students is=45*36=1620

So actual total is=1620-34+32-44+46=1620

So average is =1620/45=36

Q47) Answer D

Total marks of 22 student is=22*72=1584

Actual total marks is=1584-44-53-56+49+51+60=1591

So new average is1591/22=72.31

Q48) Answer C

Let odd numbers is=x+2,x,x-2

So, 3x=657

So, x=657/3=219

Now even number is y,y+2,y+4,y+6

So, 4y=84-12=72

So, y=18

Second largest even is 22

Smallest odd=217

Required sum is=239

Q49) Answer B

5 boys total spend=150*5=750

Total spend =9*175=1575

Total spend by girls is=1575-750=825

Average spend by girls =825/4=206.25

Q50) Answer A

Let their age is 3x,4x and 5x.

So according to the question =12x=28*3=84

So, x=7

Sum of age of A and B is=7*7=49

Sum after 3 years will be=49+6=55

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