

MARUTHI SCHOOL OF BANKING REASONING & QA TEST

Directions (1-3): In each of the following questions, a statement is given followed by two sets of conclusions numbered I and II. These statements show relationship between different elements. You have to assume the statement to be true and then decide which of the given conclusions logically follows from the information given in the statement.

Give answer (1) if either Conclusion I or Conclusion II is true

Give answer (2) if only Conclusion I is true

Give answer (3) if both the Conclusion I and Conclusion II are true

Give answer (4) if only Conclusion II is true

Give answer (5) if neither Conclusion I nor Conclusion II is true

(1-2):Statements: $D \leq W > U \geq I; Y \leq U; Y \geq O$

1. Conclusions: I. $I \leq D$ II. $O > U$

2. Conclusions: I. $O < W$ II. $I \leq Y$

3. Statements: $N \geq E = R \leq X; W \leq Q; S > X$

Conclusions: I. $S > N$ II. $W \leq N$

4. In which of the following expressions does the expression 'H \geq F' hold definitely true?

1. $E \geq F \geq R \geq B = C \geq H$ 2. $N \geq H \geq A = C \leq I \geq F$

3. $H \geq R \geq M = P \leq A \geq F$ 4. $F \leq S = B \leq L < O \leq H$

5. $F = T \leq D \leq Y = X \leq H$

5. Study the following information to answer the given question.

Company A has recently rented many apartments in building D for providing official quarters to its employees. However, although many employees had requested the company to provide accommodation around six months ago, since the announcement of quarters last month, hardly any employees has signed up for the new facility.

Which of the following may not be a reason for the employees' unwillingness to live in the official quarters?

(1) All the employees of company A were informed just two months ago that the company had decided to triple the house rent allowance (HRA) shortly.

(2) The area where the company has rented the apartments does not have a school, college or hospital in its 4 km radius.

(3) The maintenance amount for the apartments which have been rented by the company is very high and the company has announced that employees would have to pay the amount on their own.

(4) There have been talks about the company changing its current office location and the new office location is very far from the area in which the apartments have been rented.

(5) Apartments which have been rented by the company area located at an area which does not have adequate public transport facilities.

Directions (6- 10): Study the following information carefully and answer the questions given below:

When a word and number arrangement machine is given an input line of words and numbers, it arranges them following, a particular rule. The following is an illustration of input and rearrangement:

(All the numbers are two digit numbers).

Input: bear 24 binders brave 91 17 but 68 bailer 35 be 74

Step I: 19 bear 24 binders brave 17 but 68 bailer 35 74 be

Step II: 47 19 bear 24 binders brave 17 68 bailer 35 be but

Step III: 86 47 19 24 binders brave 17 bailer 35 be but bear

Step IV: 53 86 47 19 24 binders 17 bailer be but bear brave

Step V: 42 53 86 47 19 binders 17 be but bear brave bailer

Step VI: 71 42 53 86 47 19 be but bear brave bailer binders

Step VI is the last step of the above arrangement as the intended arrangement is obtained. As per the rules followed in the given steps, find out the appropriate steps for the given input.

Input: tyre 71 toughen 59 tip 82 13 thanks to 68 table 46

6. If in the last step, '1' is added to each of the odd numbers and '2' is subtracted from each of the even numbers, then how many numbers multiple of '4' will be formed?

1. Two 2. Three 3. More than three
4. None 5. One

7. If in step III, '28' interchanges its position with 'table' and '59' also interchanges its position with 'tip' then which of element will be to the immediate left of '46'?

1. '28' 2. 'to' 3. 'table' 4. 'tip' 5. '59'

8. Which of the following combinations represents the third and the ninth element in second last step of the given input from the left end?

1. '95' and 'tip' 2. 'table' and '86'
3. '17' and 'to' 4. '86' and 'tip'
5. 'tyre' and '17'

9. Which element comes exactly between '59' and 'thanks' in Step II of the given input?

1. toughen 2. 46 3. 13 4. table 5. 68

10. Which element is third to the right of the one which is eighth from the right end in Step IV?

1. 13 2. tip 3. thanks 4. to 5. 46

Directions (11-15): Study the following information carefully and answer the questions given below:

Eight family members D, E, F, G, H, I, J and K are sitting around circular table but not necessarily in the same order. Some of them are

females and some are males. All of them are related to each other in the same way or the other. Some of them are facing the centre while some are facing outside (i.e. opposite to the centre.)

Only two people sit between E and H. E faces the centre. I sits second to the right of E. H is the wife of D. No females is an immediate neighbour of H. F is not an immediate neighbour of E. F is the daughter of H. Both the immediate neighbours of F face the centre.

Only three people sit between D and F's brother. I is not the brother of F. Neither D nor F's brother is an immediate neighbour of I.

K, the wife of E, sits to the immediate left of G. Both J and D face direction opposite to that of F (i.e.F faces the centre then both J and D face outside and vice-versa). U's husband sits second to the left of J. E's father sits to the Immediate right of H.

E sits second to the right of D's father. Both the immediate neighbours of I are females.

11. How many people sit between E and D's father when counted from the right of E?

1. Four 2. Three 3. None
4. One 5. Two

12. Who amongst the following sits exactly between J and H when counted from the right of J?

1. E 2. I 3. D 4. K 5. F

13. Which of the following statements regarding E is definitely true?

1. I and K are immediate neighbours of E.
2. E sits second to the left of I 3. E is the son of D.
4. None of the given options is correct
5. G is the father of E.

14. Who amongst the following faces outside (i.e. opposite to the centre)?

1. F 2. G 3. H 4. K 5. E

15. If it is given that J is married to I, then what is the position of T with respect to J's daughter-in-law?

1. Third to the right 2. Second to the right
3. Immediate right 4. Second to the left
5. Third to the left

Directions (16 -18): In each of the following questions, three statements followed by two Conclusions numbered I and II have been given. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given Conclusions logically follows from the given statements disregarding commonly known facts.

Give answer (1) if either Conclusion I or Conclusion II follows

Give answer (2) if only Conclusions I follow

Give answer (3) If both the Conclusion I and Conclusion II follows

Give answer (4) if only Conclusion II follows

Give answer (5) if neither Conclusion I nor Conclusion II follows

16. Statements: No hour is a day.
All months are days.
Some hours are calendars.

Conclusions:

- I. No month is an hour.
II. All calendars being days is a possibility.

17. Statements: Some comics are books.
All comics are novels.
No novel is an article.

Conclusions:

- I. Some novels are books.
II. All articles being books is a possibility.

18. Statements: No liquid is fluid.
All solids are liquids.
All gases are solids.

Conclusions:

- I. Atleast some solids are fluids.
II. All gases are liquids.

Directions (19-20): In these questions, four statements followed by five conclusions are given as five alternatives (1), (2), (3), (4) and (5).

You have to assume the given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given Conclusions logically follows from the given statements disregarding commonly known facts.

19. Statements: Some flutes are guitars.
No guitar is a piano.
Some pianos are drums.
All drums are violins.

Conclusions:

1. All pianos are violins.
2. No flute is a piano.
3. Some drums are definitely not flutes
4. All violins being guitars is a possibility.
5. All violins being flutes is a possibility.

20. Statements: All pets are animals.
All animals are reptiles.
No animal is a bird.
Some birds are insects.

Conclusions:

1. No reptile is a pet.
2. All Insects being animals is a possibility
3. Some pets are insects.
4. No pet is a bird.
5. Some birds are reptiles.

Directions (21-26): Study the following information carefully and answer the questions given below:

Seven people namely M, N, O, P, Q, R and S like seven different genres of music namely Classical, Hip-hop, Pop, Jazz, Opera, Rock and Electronics but not necessarily in the same order. Each person also works in the same office but at a different position on the basis of seniority namely Trainee (TE), Assistant Manager (AM), Manager (MG), Senior Manager (SM), Chief Manager (CM), Executive Director (ED) and Director (DR) but not

necessarily in the same order. (Please Note: The positions have been given in increasing order of seniority with TE being the junior most position whilst DR being the senior most position.)

Only one person is senior than O. The one who is senior than O likes Hip-Hop. Only two people are junior than R. M is junior than R and likes Electronics. M is not the junior most. Q is junior than the CM but senior than the one who likes Jazz. The one who likes is not the senior most. S likes Classical. The one who likes Pop is senior than Q but not the ED. P does not like Pop.

21. As per the given arrangement, R is related to Opera and Q is related to classical in a certain way. To which of the following is P related to in the same way?

1. Pop 2. Jazz 3. Rock 4. Electronics 5. Hip-hop

22. Who amongst the following works as a MG?

1. R 2. Q 3. S 4. P
5. Other than those given as options

23. Which of the following pairs represents the people who have less experience than P and more experience than Q?

1. M,S 2. R,O 3. N,P 4. M,O 5. N,O

24. Who amongst the following works as a 'TE'?

1. P 2. N 3. R 4. S 5. O

25. Which combination represents the position at which N works and the music genres that he likes?

1. CM-Rock 2. CM-Pop 3. SM-Classical
4. MG-Opera 5. MG-Jazz

26. Which of the following music genres does R like?

1. Electronics 2. Pop 3. Rock
4. Hip-Hop 5. Jazz

27. Read the following information and answer the given question.

"The man behind the revival of S-Cross Automobiles, the CEO has decided to quit. I believe that the company will soon go into losses due to this decision". - Statement by a market analyst.

Which of the following statements appears to be the perception of the market analyst?

1. No other person can run S- Cross Automobiles as successfully as the present CEO.
2. S-Cross Automobiles may decide to shut down the operations due to the CEO's exit.
3. S-Cross Automobiles will try its best to retain the CEO in order to maintain its market position.
4. The strategies adopted by the CEO of S-Cross Automobiles were exclusive in the Industry.
5. S-Cross Automobiles has the highest market share at present.

28. Read the following paragraph and answer the question which follows

Bookings for the dream project of Floraville builders' new building are underway. The building for which construction is due to start next month

has flats costing a minimum of ₹80 lakhs. Bank B offers 100% loan scheme in which ₹15 lakhs is provided by the bank at the start of construction, ₹25 lakhs after one year of the start of construction work and ₹10 lakhs every subsequent year till the completion of the project.

Which of the following statements would prove that the bank's loan disbursement plan may be flawed in its approach?

(A) Cost of construction undertaken by Floraville builders varies depending on the area and labour cost even within a city.

(B) Floraville builders take a minimum of three years to complete a project by which time the entire payment must be made by the buyers.

(C) The purchase of a flat from Ashiana builders is mandatory to pay 75% of the entire amount before the second year of start of construction.

(D) Many banks do not offer flexibility in payment scheme if construction of a project does not near competition.

1. All (A), (B), (C) and (D) 2. Only (A)
3. Both (B) and (C) 4. Only (C)
5. Both (B) and (D)

29. Which of the following expressions is true if the expression ' $C \geq R = O \leq S = T > M$ ' is definitely true?

1. $O < M$ 2. $C > M$ 3. $R > M$
4. $C \geq S$ 5. $T \geq R$

30. How many such pairs of letters are there in the word **ASTROLOGICAL**, each of which has as many letters between them in the word (in both forward and backward directions) as they have in the English alphabetical series?

1. One 2. None 3. Three
4. More than three 5. Two

Directions (31- 32): The following questions are based on the five three-digit numbers

458 374 654 487 568

31. If in each of the numbers the positions of the first and the third digits are interchanged and then the numbers so obtained are arranged in descending order from the left to right, which number will be at the fourth position?

1. 654 2. 487 3. 458
4. 374 5. 568

32. If in each of the numbers the positions of the first two digits are interchanged and then the numbers so obtained are arranged in ascending order from left to right, which number will be at the second position?

1. 654 2. 458 3. 568
4. 487 5. 374

Directions (33-35): Study the following information carefully and answer the questions given below:

P, Q, R, S, T, U, V, W and Z are sitting around a circle facing at the centre. R is third to the right of Z who is second to the right of P. S is not an

immediate neighbour of Z and R. T is third to the left of S. Q is third to the right of W who is not an immediate neighbour of S.

33. Which of the pair of persons are the immediate neighbours of P?

1. VQ
2. VW
3. VS
4. SR
5. None of these

34. What is Q's position with respect to Z?

- (A) Fourth to the right
- (B) Fourth to the left
- (C) Third to the right

1. Only (A)
2. Only (B)
3. Only (C)
4. Either (A) or (B)
5. None of these

35. In which of the following pairs is the second person sitting second to left of the first person?

1. RT
2. RW
3. QR
4. PS
5. WZ

Directions(36-40): Each of the following questions, consists of a question and two statements numbered I and II given below it. You have to decide whether the data given in the statements are sufficient to answer the question. Read both the statements and mark the appropriate answer.

Mark answer (1) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

Mark answer (2) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

Mark answer (3) If the data either in statement I alone or in statement II alone are sufficient to answer the question.

Mark answer (4) If the data in both statements I and II together are not sufficient to answer the question.

Mark answer (5) If the data in both the statements I and II together are necessary to answer the question.

36. How many people are standing between H and U in a straight line of 15 people (Note: All are standing in a straight line facing north.)?

I. M stands fifth from the left end of the line. H and K are immediate neighbours of M. Only two people stand between M and U.

II. B stands third from the right end of the line. Only six people stand between K and B. Only one person stands between H and K. K stands exactly between H and U.

37. How is B related to S?

I. N is married to T. B is the sister of N. T has only one daughter K. K is the granddaughter of S.

II. N is the daughter of S. N is married to T. T is the only child of Z. B is the sister-in-law of T.

38. Among people A, B, C, D, E and F, each are having a different weight, who is the second heaviest?

I. C is heavier than only two people. A is heavier than F but lighter than B. D is not the heaviest.

II. F is lighter than only two people. C is lighter than F but heavier than D. A is lighter than only B.

39. How many people are standing in a straight line (Note: All are facing north)?

I. U stands third from the left end of the line. U is an immediate neighbour of P and W. Only one person stands between W and T. Only two people stand to the right of W.

II. S stands at extreme left end of the line. T stands to the extreme right end of the line. Only one person stands between S and U. Only one person stands between T and W.

40. How far is point M from point K?

I. Point D is 5m to the south of Point P. Point M is 8m to the west of point D. Point S is 2.5m to the north of point M. Point O is 10 m to the east of Point S. Point K is 2.5m to the south of point O.

II. Point K is 10m to the east of point M. Point U is 8m to the west of Point M. Point D is to the east of M. Point M is the midpoint of the lines formed by joining points U and D.

Directions (41-45): Study the following information carefully and answer the questions given below:

Eight people P, Q, R, S, T, U, V and W, live on eight different floors of building (but not necessarily in the same order.) The lowermost floor of the building is numbered one, the one above that is numbered two, and so on till the topmost floor is numbered eight. Each one of them plays a different game namely- San Andreas, Roadrash, Contra, Castlevania, Resident Evil, Tekken3, Dragon Quest and Metal Gear (but not necessarily in the same order).

V lives on an even numbered floor above the floor numbered two. Only three people live between the V and the one who plays Roadrash. T lives immediately below the one who plays Roadrash.

Only two people live between T and the one who plays Tekken3. R lives immediately above the one who plays Tekken3. The one who plays San Andreas lives on an even numbered floor below R.

Only two people live between the one who plays San Andreas and the one who plays Dragon Quest. The one who plays Metal Gear lives immediately below Q. Q neither lives on the topmost floor nor plays Roadrash.

U lives on odd numbered floor but not the lowermost floor. Only two people live between U and the one who plays Resident Evil.

Only one person lives between D and the one who plays Contra. W lives immediately below the one who plays Castlevania.

41. Which of the following games does S play?

1. San Andreas
2. Roadrash
3. Tekken 3
4. Metal Gear
5. Castlevania

42. How many people live between V and the one who plays Tekken3?

1. One
2. None
3. Two
4. Four
5. Five

43. Which of the following statements is TRUE with respect to the given information?

1. V plays Resident Evil

2. R lives immediately below the one who plays Contra
 3. All the give statements are true
 4. Q lives immediately above T.
 5. Only four people live between U and the one who play roadrash.

44. Who amongst the following live exactly between P and the one who plays Dragon Quest?
 1. S, the one who plays Resident Evil
 2. S, Q
 3. T, W
 4. T, The one who plays Tekken 3
 5. U, The one who plays Roadrash

45. Four of the following five are alike in a certain way and so form a group. Which one of the following does not belong to the group?
 1. P-Contra
 2. W-Castlevania
 3. U-Tekken 3
 4. Q-Dragor Quest
 5. B-Roadrash

Directions (46-50): Study the following information carefully and answer the questions given below:

Ten persons from different companies viz. Indigo, Biocon, Nokia, Samsung, Havells, Amul, Tata, Vadilal, Flipkart and Cipla are sitting in two parallel rows containing five people each, in such a way that there is an equal distance between adjacent persons. In row-1 G, H, I, J and K are seated and all of them are facing south. In row-2 U, V, W, X and Y are seated and all of them are facing north. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row. (All the information given above does not necessarily represent the order of seating as in the final arrangement).

K sits third to the left of the person from Biocon. V is an immediate neighbour of the person who faces K. The person from Havells sits to the immediate left of V. Only two people sit between the person from Nokia and H. The person from Nokia is not an immediate neighbour of K. Only one person sits between the one who faces H and the person from Tata.

X sits second to the right of W. W does not sit at an extreme end of the line. The person from Cipla sits third to the left of the one who faces W.

U is an immediate neighbour of the person from Samsung. U is not from Tata. Only two people sit between the person from Amul and J. The person from Flipkart is an immediate neighbour of the person who faces the person from Amul.

Only one person sits between the one who faces the person from Flipkart and I. Neither I nor U is from Indigo.

46. K is related to the person from Vadilal in the same way as W is related to person from Tata based on the given arrangement. To who amongst the following is, X related to, following the same pattern?

1. The person from Amul
2. The person from Indigo
3. The person from Nokia
4. The person from Havells
5. The person from Flipkart

47. Y is from which of the following companies?

1. Indigo
2. Tata
3. Amul
4. Samsung
5. Biocon

48. Who amongst the following faces the person from Vadilal?

1. The person from Flipkart
2. V
3. Y
4. The person from Nokia
5. The person from Havells

49. Which of the following is true regarding G?

1. Only one person sits between G and the person from Cipla.
2. The person from Samsung faces G.
3. G is an immediate neighbour of the person from Biocon.
4. None of the given options is true
5. G sits to the immediate left of L

50. Who amongst the following sit at extreme ends of the rows?

1. The persons from Indigo and G
2. The person from Cipla and X
3. K, Y
4. J and the person from Flipkart
5. The person from Nokia and U

QUANTITATIVE APTITUDE

Directions (51-55): Each of the questions given below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements is sufficient to answer the question. Read both the statements.

Give answer (1) If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

Give answer (2) If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

Give answer (3) If the data in statement I alone or in statement II alone is sufficient to answer the question.

Give answer (4) If the data in both the statements I and II is not sufficient to answer the question.

Give answer (5) if the data in both the statements I and II together is necessary to answer the question.

51. What is the cost price of the article? (in ₹.)

I. 8% of the selling price of the article is equal to the 12% of the cost price.

II. 15% of the cost price of the article is ₹6 more than 9% of the selling price of the article.

52. In how many days, A, B and C together can finish a piece of work?

I. A is twice as efficient as B.

II. A and B together can finish a piece of work in $10\frac{2}{3}$ days. B and C together can finish the same piece of work in $17\frac{7}{9}$ days. A and C together can finish the same piece of work in $11\frac{3}{7}$ days

53. What distance (in km) the boat can travel downstream in 20 minutes?

I. The distance travelled by the boat upstream in 48 minutes is equal to the distance travelled by the boat downstream in 36 minutes.

II. The respective ratio between speed of the boat in still water and speed of the water current is 7: 1.

54. What is M's mother's present age? (in years)

I. The respective ratio between M's father's present age and M's present age is 7 : 2.

II. The combined present age of M's father and M is 6 years more than the combined present age of M's mother and M. 12 years ago, M's father's age that time was $1\frac{1}{4}$ times M's mother's age that time.

55. The side of a square is equal to the length of a rectangle. What is the area of the square? (in m^2)

I. The difference between area of the rectangle and that of the square is $196 m^2$.

II. The difference between perimeter of the square and that of the rectangle is 14 meter.

Directions (56-61): Study the table and answer the given questions. The given table shows the attendance at a stadium (having a seating capacity of 40000) during all the days of a 5-day test match.

Day	Total Attendance of Stadium	Percentage of people who stayed back in the stadium till the end of play
Thursday	18000	80
Friday	24000	90
Saturday	32000	95
Sunday	30000	85
Monday	25000	92

NOTE: Everyone left the stadium at the end of play. End of play occurs at the end of every day.

56. What was the average number of people who left the stadium before the end of play on Thursday, Friday and Sunday?

1. 3700 2. 3900 3. 3300
4. 3100 5. 3500

57. What is the respective ratio between the total number of people who left the stadium before the end of play on Friday and Saturday together and that who left the stadium before the end of play on Thursday and Monday together?

1. 3 : 5 2. 4 : 7 3. 5 : 7
4. 5 : 8 5. 2 : 3

58. Out of the number of people who left the stadium before the end of play on Monday, the respective ratio between the number of children, adults and senior citizens was 4 : 3 : 1. What was the number of adults who left the stadium before the end of play on Monday?

1. 840 2. 750 3. 1200
4. 900 5. 1020

59. What percent of the total seats of the stadium was sold for Saturday, if 1080 people did not turn up for that day's play?

1. 81.2 2. 78.7 3. 82.7
4. 94.8 5. 83.2

60. If males comprised 65% and 60% of those who attended the stadium on Friday and Sunday respectively, what was the difference between the number of males who attended the stadium on Friday and Sunday?

1. 1800 2. 3400 3. 3200
4. 5100 5. 2400

61. The number of people who stayed back till the end of play on Friday was what percent more than that on Thursday?

1. 50 2. 60 3. 40 4. 25 5. 30

Directions (62-66): What will come in place of question mark (?) in the given number series?

62. 388.5 388 387 383 359 ?
1. 167 2. 154 3. 181
4. 199 5. 173

63. 350 410 466 513 544 ?
1. 585 2. 560 3. 572
4. 595 5. 550

64. 2 3 8 27 ? 565
1. 174 2. 132 3. 166
4. 148 5. 112

65. 23 11 10 13.5 25 ?
1. 90 2. 45 3. 50
4. 75 5. 60

66. 86 87 91 100 116 ?
1. 112 2. 166 3. 188
4. 141 5. 128

67. Ram and Ali were travelling on their motorbikes from point P to Q. Ram, travelling at a speed of 60 km/hr leaves from point P at 6 am. Ali travelling at a speed of 90 km/hr leaves point P at 10 am on the same day as Ram. At what distance from point P, will Ram and Ali meet?

1. 400km 2. 720km 3. 420km
4. 640km 5. 480km

68. A started a business with an investment of ₹12,000. At the end of six months from the start of the business, A withdrew half of his initial investment and B and C invested in the ratio of 10 : 9 respectively. If A's share in annual profit of ₹14,000 was ₹4500, what was the investment made by B?

1. ₹20,000 2. ₹25,000 3. ₹10,000
4. ₹18000 5. ₹35000

Directions (69-74): What approximate value will come in place of question mark in the given question? (You are not expected to calculate the exact value.)

69. $539.85 + 12.91 \times 2.04 = 112.98 \times ?$
 1. 2 2. 9 3. 4 4. 5 5. 3

70. $(419.89 + 59.99) = ? \times 39.899$
 1. 18 2. 12 3. 15 4. 6 5. 8

71. $\sqrt{59.85\% \text{ of } 249 - 29} = ?$
 1. 27 2. 11 3. 13 4. 7 5. 15

72. $?\% \text{ of } (144.98 + 4.96) + 27.01 = 50.04$
 1. 27 2. 20 3. 60 4. 16 5. 15

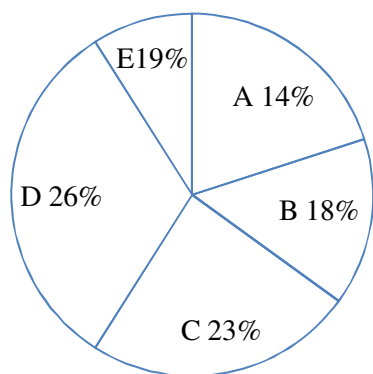
73. $\sqrt{145} + ?^2 \times 1.98 = 44$
 1. 2 2. 1 3. 8 4. 4 5. 6

74. $\frac{7.98 \times 12.01 \times 35.98}{16.01} = 8 \times ?^3$
 1. 1 2. 6 3. 3 4. 2 5. 4

Directions (75-80): Refer to the pie charts and answer the given questions.

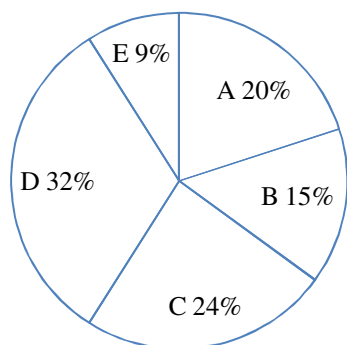
Distribution of number of bags (of domestic and international brands) sold by 5 stores in 2010

Total number: 2700



Distribution of number of bags of international brands sold by 5 stores in 2010

Total number: 1200



75. Combining stores D and E, only 40% of bags (of domestic and international brands) sold was of brand 'X'. Among those, only 50% were leather bags. What is the total number of leather bags of brand 'X' sold by stores D and E together?

1. 249 2. 236 3. 247
 4. 243 5. 239

76. **Approximately**, what percent of bags sold by store D was of domestic brands?

1. 40 2. 52 3. 58 4. 45 5. 35

77. Number of bags of International brands sold by stores B and E increased by 20% and 25% respectively from 2010 to 2011, if the respective ratio between total number of bags of international brands sold by stores B and E together and that of domestic brands sold by same stores together was 13:21, what was the total number of bags of domestic brands sold by stores B and E together in 2011?

1. 588 2. 609 3. 567
 4. 580 5. 540

78. What is the difference between total number of bags of domestic brands sold by stores A and B together and that sold by stores D and E together?

1. 275 2. 279 3. 283
 4. 287 5. 285

79. What is the average number of bags (of domestic and international brands) sold by stores A, B and D?

1. 528 2. 522 3. 518
 4. 520 5. 532

80. What is the central angle corresponding to number of bags of international brands sold by store C? (in degrees)

1. 78.2 2. 86.4 3. 93.2
 4. 84.8 5. 89.2

81. Ria invests ₹P in scheme A which offers simple interest at the rate of 12% p.a. and ₹(P+2520) in scheme B which offers compound interest (compounded annually) at the rate of 20% p.a. The respective ratio between the amount received from scheme A at the end of 5 years and that received from scheme B at the end of 2 years was 4 : 5. What is the value of P?

1. ₹6720 2. ₹6500 3. ₹6480
 4. ₹8000 5. ₹6000

82. Cost price of article B is 20% more than that of article A. Article B was marked 20% above its cost price. The difference (in ₹) between the cost price and the marked price of article B is equal to that of article A. Both the articles were sold at a discount of 10%. If the selling price of article B is ₹45 more than that of article A. what is the cost price of article A?

1. ₹250 2. ₹300 3. ₹280
 4. ₹225 5. ₹240

Directions (83-88): Study the following information carefully to answer the questions.

A bakery sells three baked products - macaroons, cupcakes and brownies. On January 1 2017, the total number of customers who bought products from the bakery was 'X'. The respective ratio between male customers and female customers was 4 : 9.

Out of the total number of male customers, $1/5^{\text{th}}$ bought only macaroons. $3/16^{\text{th}}$ bought only cupcakes and 30% bought only brownies. The number of customers who bought only macaroons and cupcakes both was equal to the number of customers who bought only cupcakes and brownies both. The number of customers who bought only macaroons and brownies was 6 less than the number of customers who bought only macaroons and Cupcakes. 8 customers bought all the three baked products and 48 customers bought only brownies. Out of the total number of female customers, $1/8^{\text{th}}$ bought only macaroons, $3/8^{\text{th}}$ bought only brownies. 10% bought only macaroons and cupcakes and 5% bought only cupcakes and brownies. The number of customers who bought only cupcakes was twice the number of customers who bought only macaroons. 16 customers bought only macaroons and brownies and the remaining bought all three baked products.

83. What is the respective ratio between the total number of male customers who purchased both cupcakes and brownies and the total number of female customers who purchased the same?

1. 15 : 17 2. 14 : 23 3. 15 : 19

4. 12 : 19 5. 12 : 17

84. The total number of customers (both male & female) who bought only brownies was what percent more than those who bought only cupcakes?

1. 55.5 2. 52.5 3. 54
4. 58 5. 51.5

85. Out of the male customers who bought macaroons, $1/3^{\text{rd}}$ bought 4 macaroons each and remaining bought 2 macaroons each. How many total macaroons were sold to male customers?

1. 176 2. 181 3. 153
4. 167 5. 168

86. What is the difference between the number of males and females who like only cupcakes?

1. 50 2. 60 3. 40 4. 52 5. 62

87. On January 2, 2017, the total number of customers who purchased from the bakery decreased by 10% as compared to the previous day. If the respective ratio between male customers and female customers was 4:5, what was the number of male customers?

1. 236 2. 232 3. 216
4. 208 5. 220

88. What is the difference between the total number of customers (both male & female) who bought all the three baked products and that who bought only two of the baked products?

1. 84 2. 74 3. 53 4. 58 5. 50

89. A jar had 120 litre mixture of milk and water in the respective ratio of 5 : 1. 30 litres of this mixture is taken out and 'X' litre of each milk and water is added to the jar. The respective ratio between milk and water in the jar was 4 : 1 respectively. What

was the total quantity of both milk and water added to the jar? (in litres)

1. 12 2. 10 3. 16 4. 20 5. 18

Directions (90 - 95): In each of the following questions, two equations numbered I and II are given. You have to solve both the equations and give answer

1. if $x \geq y$ 2. if $x \leq y$
3. if $x > y$ 4. if $x < y$
5. if relationship between x and y cannot be established

90. I. $4x^2 + 12x + 5 = 0$ II. $y^2 + 7y + 12 = 0$

91. I. $3x^2 - 10x + 8 = 0$ II. $y^2 - 5y + 6 = 0$

92. I. $2x^2 + 3x + 1 = 0$ II. $2y^2 + 9y + 9 = 0$

93. I. $x^2 - 8x + 15 = 0$ II. $y^2 - 11y + 28 = 0$

94. I. $2x^2 + 13x + 21 = 0$ II. $2y^2 + 9y + 10 = 0$

95. I. $x^2 = 64$ II. $y^2 - 15y + 56 = 0$

96. The present age of A's father is equal to six times of A's age two years hence. If A's mother is eight years younger than A's father and the respective ratio between A's mother and father is 7 : 9, what is A's present age? (in years)

1. 12 2. 6 3. 5 4. 4 5. 8

97. If the circumference of a circle is 36 cm more than the perimeter of a square and the radius of the circle is 3 cm less than the side of the square. What is the measure of the area of square?(in sq. cm)

1. 576 2. 676 3. 625
4. 169 5. 529

98. A project can be completed by 20 men and 36 women together in $8 \frac{2}{5}$ days. 28 men can complete the same project in 15 days. How much work will be left unfinished if 40 women together work for 7 days?

1. $1/3$ 2. $1/5$ 3. $2/5$ 4. $2/3$
5. Other than those given as options

99. In village A and B, out of their respective population (male + female), $2/5^{\text{th}}$ and $3/8^{\text{th}}$ are females. The number of males in village B is 25% more than those in village A. The number of females in village A and B together is 2125, what is the total population (male + female) of village A?

1. 3600 2. 2500 3. 3000
4. 2000 5. 3500

100. In the month of July, Ramu spent ₹3225 on paying electricity bill, ₹1290 on paying water bill, ₹5160 on paying telephone bill and ₹645 on paying cable bill. After paying these bills he is left with 84% of his monthly salary. Out of the remaining salary he spends 20% on buying groceries and the remaining he invests in mutual funds and VPF in the respective ratio of 5 : 3. How much does he invest in mutual funds every month?

1. ₹29,400 2. ₹28,500 3. ₹30,650
4. ₹26,550 5. ₹27,090

ALL THE BEST