

1. Select the option that is related to the sixth number in the same way as the first number is related to the second number and the third number is related to the fourth number.

**56 : 11 :: 34 : 7 :: ? : 13**

- a) 76                      b) 54                      c) 84                      d) 62

2. In a certain code language, "GOP" is coded as "38", and "HVN" is coded as "44". How will "PNG" be coded in that language?

- a) 42                      b) 37                      c) 29                      d) 32

3. 8 - boys G, H, I, J, K, L, M and N are sitting around a square table facing towards the centre (not necessarily in the same order). Four boys are sitting at the corners and four boys are sitting in the middle of the sides. J is the immediate neighbour of G and H and he is sitting at a corner. M is the immediate neighbour of N and K. L is the sitting in the middle of the side. G is not sitting opposite to L. N is towards the immediate right of H. Who is sitting diagonally opposite to I?

- a) L                      b) K                      c) N                      d) J

4. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster. **TV : MO :: GR : ?**

- a) AK                      b) ZL                      c) ZK                      d) AM

5. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series. **IDK, LFL, OHM, RJN, ?**

- a) TLN                      b) ULO                      c) STO                      d) SLP

6. 6 - boys, J, K, L, M, N and P, are sitting around a rectangular table facing towards the centre (not necessarily in the same order). 4 - boys are sitting in the corners, and 1 - boy is sitting in the middle of each shorter side of the table. N is second to the right of K and second to the left of J. M is exactly opposite to N, and M is not sitting in the corner. Which of the following statements is definitely correct?

- a) L and P are both next to N.  
b) K is diagonally opposite to L.  
c) Both I and II are correct  
d) Only I is correct

7. Select the number from among the given options that can replace the question mark (?) in the following series. **12, 37, 110, 331, 992, ?**

- a) 2947                      b) 2867                      c) 2977                      d) 2877

8. The weight of seven women W1, W2, W3, W4, W5, W6 and W7 are compared. The weight of W4 is more than W7. The weight of W5 is more than only three women and the weight of W2 is less than only W1 and W3. If the weight of W7 is the lowest, then the minimum number of women who have weight more than W6 is?

- a) 1                              b) 4                              c) 2                              d) 3

9. Read the given statement and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

**Statements:**

- Akshay earns more than Rajnish who earns more than Sam.

- Sam earns less than Dixit.

- a) Only II is correct  
b) Neither I nor II is correct

**Conclusions:**

**I.** Akshay earns more than Sam.

**II.** Dixit earns more than Akshay.

- c) Both I and II are correct  
d) Only I is correct

10. Read the given statements and conclusions carefully.

Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

- No yellow is green
- Some pink are yellow

- a) Only conclusions I and II follow  
b) Only conclusion III follows

**Conclusions:**

**I.** No green is yellow

**II.** Some yellow are pink

**III.** All green are pink.

- c) Conclusion I, II and III follows  
d) Only conclusions II and III follow

11. In a certain code language, "**COFFEE**" is coded as "**40**", "**LEMON**" is coded as "**59**" and "**GINGER**" is coded as "**60**". How will "**TEA**" be coded in that language?

- a) 43                              b) 26                              c) 29                              d) 32

12. In this question, 3 - statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follows/follow from the statements.

**Statements:**

- Some spoons are black.
  - All black are crows.
  - No crow is a plate.
- a) Only conclusion I follows  
b) Only conclusions I and III follow

**Conclusions:**

- I. Some black are spoons  
II. All crows are black.  
III. No plate is a crow
- c) Only conclusion II follows  
d) None of the conclusions follows

13. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster. **PLANT : VPCNR :: STOMP : ROQVU :: BOARD : ?**

- a) FTDQC      b) FTDQC      c) FTCQD      d) DPCTF

14. Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

**24 : 840 :: 27 : ? :: 33 : 1452**

- a) 756      b) 297      c) 1026      d) 729

15. Which of the following numbers will replace the question mark (?) in the given series?  
**325, 271, 226, ? , 163, 145, 136**

- a) 196      b) 190      c) 180      d) 186

16. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

- |            |             |             |
|------------|-------------|-------------|
| 1. Lambast | 3. Legacy   | 5. Laughter |
| 2. Lighten | 4. Languish | 6. Lightly  |

- a) 1, 5, 4, 2, 3, 6      b) 1, 5, 4, 3, 6, 2      c) 1, 4, 5, 3, 2, 6      d) 1, 4, 5, 2, 3, 6

17. Select the option that represents the letters that, when placed from left to right in the blanks, will complete the letter series. **\_B\_TFHBN \_FI \_NTF\_BNTF**

- a) GNIBJ      b) GTNJB      c) GBJNT      d) GJNTB

**18.** Which of the following terms will replace the question mark (?) in the given series?  
**SHP, RIO, PKN, MNM, ?**

- a) ISL                      b) IQL                      c) IRL                      d) JRL

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

(2, 1, 5)

(5, 12, 22)

(6, 2, ?)

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

- a) 6                      b) 8                      c) 12                      d) 14

**20.** Read the given statements and conclusions carefully.

Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

- Some pens are boxes
- Some pens are fans
- No box is a fan

**Conclusions:**

- I.** No pen is a fan
- II.** No box is a pen
- III.** Some fans are pens
- IV.** Some boxes are pens

- a) Only conclusions I and III follow  
b) Only conclusions I and II follow

- c) Only conclusions III and IV follow  
d) No Only conclusions II and IV follow

**21.** Three of the following four letter clusters are alike in a certain way and one is different. Pick the odd one out.

- a) HDS                      b) CAX                      c) FDU                      d) AYZ

**22.** In a certain code language, "STAR" is written as "8110291", "GIFT" is written as "02697". How will "DOLL" be written in that language?

- a) 2121514                      b) 2121154                      c) 2121524                      d) 2112514

23. "A  $\div$  B" means "A is the father of B".

"A - B" means "A is the son of B".

"A  $\times$  B" means "A is the sister of B".

"A + B" means "A is the wife of B".

If  $H \div I - J \times K \times L - M + N$ , then which of the following statements is NOT correct?

- |                                      |                                    |
|--------------------------------------|------------------------------------|
| a) H is husband of the sister of L   | c) H is husband of the sister of K |
| b) H is husband of the daughter of M | d) J is wife of the son of M       |

24. In this question, a statement is followed by two courses of action, numbered I and II. You must assume everything in the statement to be true and on the basis of the information given in the statement, decide which course of action/s logically follows for pursuing.

**Statement:**

A large number of the people of the city are diagnosed to be suffering from Malaria disease.

**Course of Action:**

- (a) The city municipal authorities should take immediate steps to carry out extensive fumigation in the city.
- (b) The people in the area should be advised to take steps to avoid mosquito bites.
- |                         |                             |
|-------------------------|-----------------------------|
| a) Both I and II follow | c) Only I follows           |
| b) Only II follows      | d) Neither I nor II follows |

25. In a certain code language, "DEN" is coded as 27 and "SNAKE" is coded as 125. How will "CAVE" be coded in the same language?

- |       |       |       |       |
|-------|-------|-------|-------|
| a) 16 | b) 32 | c) 46 | d) 64 |
|-------|-------|-------|-------|

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

Six people - K, M, N, P, Q and R are sitting around a circular table facing the centre. Who sits to the immediate right of K?

- a) K sits third to the left of M. Only one person sits between K and N. R sits to the immediate left of N.
- b) K sits second to the right of Q. Only two people sit between K and M. P sits second to the left of R.
- |  |
|--|
| a) Statement I alone is sufficient to answer the question while Statement II is not. |
| b) Either Statement I or Statement II is sufficient to answer the question.          |
| c) Statements I and II together are sufficient to answer the question.               |
| d) Statement II alone is sufficient to answer the question while Statement I is not. |

**27.** Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Cheetah

3. Cheering

5. Chestnut

2. Chemical

4. Cheese

6. Cheaper

a) 6, 3, 4, 1, 2, 5

b) 6, 1, 3, 4, 2, 5

c) 6, 3, 4, 1, 5, 2

d) 2, 3, 1, 4, 6, 5

**28.** Looking at a picture of Suraj, Mr. Gaurav said, "He is the son of my paternal grandfather's only son." How is Gaurav related to Suraj in the picture?

a) Father

c) Son's son

b) Father's brother's son

d) Brother

**29.** Select the option that is related to the fifth letter-cluster in the same way as the second letter - cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

CROWN : OYRVH :: TABLE : FNEEY :: UNREAL : ?

a) MCHVSA

b) NDHVSA

c) NCHUSB

d) LAERNU

**30.** Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

284 : 142 :: 568 : 284 :: 1136 : ?

a) 567

b) 569

c) 566

d) 568

**31.** 'A  $\asymp$  B' means 'A is the brother of B'. 'A  $\otimes$  B' means 'A is the daughter of B'. 'A & B' means 'A is the husband of B'. 'A  $\%$  B' means 'A is the wife of B'. If D  $\otimes$  N  $\otimes$  H & Y  $\otimes$  F  $\%$  V, then how is N related to F?

a) Son's wife

c) Daughter's daughter

b) Daughter

d) Sister's daughter

**32.** Select the correct combination of mathematical signs to sequentially fill in the diamond shapes and to balance the given equation.

$56 \diamond 8 \diamond 4 \diamond 7 \diamond 50 \diamond 15$

a)  $\div, \times, -, =, \times$

b)  $\div, \times, =, +, +$

c)  $+, =, \div, \times, +$

d)  $\div, \times, +, =, -$

**33.** Select the option that represents the letters that, when placed from left to right in the following blanks, will complete the series. **REU\_\_TR\_\_QTREW\_\_RE\_\_T**

- a) QFVQTXR      b) QEWQTYR      c) QEVQTXQ      d) QFWQTXQ

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

**Question:**

Six people sit in two parallel rows. In Row 1 - J, K and L sit facing towards north, and in Row 2 - F, G and H sit facing towards south. Each person in a row faces a person in the other row. Who faces G?

**Statements:**

- (a) H faces K; L faces an immediate neighbour of H.  
(b) G sits at one of the extreme ends of the row; J sits to the immediate left of L.
- a) Data in statements I and II together is sufficient to answer the question  
b) Data in statement II alone is sufficient to answer the question while data in statement I is not  
c) Data in statement I alone is sufficient to answer the question while data in statement II is not  
d) Data in either statement I alone or statement II alone is sufficient to answer the question

**35.** In the following question, the statement is followed by two conclusions. Which of the two conclusions is/are true?

**Statement:**

$M < K > I < J > H = G \leq F$

**Conclusions:**

**I.**  $H = F$

**II.**  $J > G$

- a) Only conclusion I is true      c) Only conclusion II is true  
b) Both conclusions I and II are true      d) Neither conclusion I nor II is true

**36.** All 32 - students in a class are standing in a row facing north. Akash is 12th from the right end while Priya is 18th from the left end. How many people are standing between Akash and Priya?

- a) 2      b) 4      c) 3      d) 5

**37.** In a certain code language, "COBBLESTONES" is written as "BBOCTSELSENO" and "SATISFACTORY" is written as "ITASCAFSYROT". How will "TACHYCARDIAS" be written in that code language?

- |                 |                 |
|-----------------|-----------------|
| a) HACTRACYSAID | c) HCATCARSAIDY |
| b) HCATRACYSAID | d) YHCATCARSAID |

**38. Directions:** A statement is given followed by two inferences I and III. You have to consider the statement to be true even if it seems to be at variance with commonly known facts. You have to decide which of the given inferences, if any, follow from the given statement.

**Statement:**

National Expressway - A is the widest expressway and is used by few people. When people find an empty and wide road, people drive at high speed. which leads to accidents.

**Inference:**

- (a) All accidents happen due to over speeding.  
(b) High speed increases the risk of accident.

- |                            |                                |
|----------------------------|--------------------------------|
| a) If only I follows       | c) If only II follows          |
| b) If both I and II follow | d) If neither I nor II follows |

**39.** By interchanging the given two numbers (not digits), which of the following equations will be correct? 44 and 19

**I.**  $203 + 44 - 27 \times 19 \div 11 = 114$

**II.**  $9 \times 572 \div 19 - 44 + 4 = 120$

- |                     |           |            |                  |
|---------------------|-----------|------------|------------------|
| a) Neither I nor II | b) Only I | c) Only II | d) Both I and II |
|---------------------|-----------|------------|------------------|

**40.** Seven athletes A, B, C, D, E, F and G participate in a race. E is ahead of A but behind F. D is ahead of only two athlete. G is running last. C is running behind only two athlete. F is not the first. Which athlete is running in the fourth position from behind?

- |      |      |      |      |
|------|------|------|------|
| a) C | b) F | c) A | d) E |
|------|------|------|------|

**41.** Four males P1, P2, P3 and P4 are sitting in a row facing towards the North (not necessarily in the same order) and four females A1, A2, A3 and A4 are sitting in a row facing towards the face of these males (not necessarily in the same order). P1 and P4 sit at the ends. A3 and P2 are facing each other. A4 is second to the left of A3. P4 is facing A1. A1 and A4 are at the ends. Which of the following statements is correct?

**I.** A4 is facing P1.

**II.** P4 is second to the left of that male who is facing A2.



- a) Only II                      b) Neither I nor II                      c) Only I                      d) Both I and II

**42.** Identify the number that does NOT belong to the following series.

147, 293, 587, 1173, 2346, 4693

- a) 293                      b) 1173                      c) 2346                      d) 4693

**43.** Select the numbers from among the given options that can replace the question marks (?) in the following series. 8, 9, 5, 16, 27, 25, 32, 81, 125, ?, 243, ?

- a) 325, 64                      b) 375, 64                      c) 64, 375                      d) 64, 625

**44. Read the given statements and conclusions carefully.**

Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

- No blue is white
- No black is blue.

**Conclusions:**

- |                                     |                                       |
|-------------------------------------|---------------------------------------|
| a) All the conclusions follow       | I. All whites are blacks.             |
| b) Only conclusions I and II follow | II. No blue is black.                 |
|                                     | III. Some whites are not blues.       |
|                                     | c) Only conclusions II and III follow |
|                                     | d) None of the conclusions follow     |

**45.** If B = 25 and BEST = 62, then STABLE = ?

- a) 100                      b) 101                      c) 102                      d) 103

**46.** In this question, two statements I and II have been given. These statements may be independent causes or effects of independent causes or a common cause. One of the statements maybe the

- I.** This year College X reduced the cut-off marks to 50 from 60 for the entrance exam.
- II.** In the last two years, the Students Union in College X has been actively negotiating with the college administration regarding the Quality of food and Health and Hygiene standards at the College Canteen.
- a) II is the cause and I is its possible effect
- b) I is the cause and II is its possible effect
- c) Both I & II are effects of independent causes
- d) Both I & II are independent causes

47. The percentage of marks obtained by seven girls G1, G2, G3, G4, G5, G6 and G7 in a class are compared. All the girls have obtained different percentages of marks. G4 has the lowest percentage. G3 has a higher percentage than G5, but less than G1. The percentage of G6 is less than G2. G7 has the highest percentage. G1 has a percentage greater than only three girls.

Who has the third lowest percentage?

- a) G1                      b) G4                      c) G3                      d) G7

48. Read the given statements and conclusions carefully.

Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

- All T are Q.
- No M is T.

**Conclusions:**

- I. No T is M.
- II. Some Q are not M.

- a) Only conclusion I follows                      c) Only conclusion II follows  
b) Neither conclusion I nor II follows                      d) Both conclusions I and II follow

49. In a certain code language, if YELLOW is written as BLUE, BLUE is written as RED, RED is written as GREEN, GREEN is written as WHITE and WHITE is written as ORANGE, then in the same code language, what is the colour of human blood?

- a) ORANGE                      b) WHITE                      c) RED                      d) GREEN

50. 6 persons A, B, C, D, E and F are sitting around a rectangular table, facing towards the centre (not necessarily in the same order). One person is sitting on each of the smaller sides. Two persons are sitting on each of the bigger sides. No person is sitting at the corners. C and F are sitting on the same side. B is sitting opposite to A. F is the immediate neighbour of B. A is sitting second to the left of D.

Counting towards the left of D, how many persons are sitting between A and D?

- a) 2                      b) 3                      c) 1                      d) 0

51. Read the passage given below and answer the questions that follow:

Eight friends - Rita, Priya, Sita, Ami, Sahil, Sameer, Biswas, and Anil - are sitting around a circular table facing each other. Rita's husband is sitting directly across the table from her. Priya's husband, and her best friend, Rita are sitting on her either side. Sameer is to the immediate left of Anil and third to the right of Rita. Ami is sitting to the immediate right of Rita and also to the left of Sameer's wife. Aarti and Sahil are the only two unmarried people in the group. Which of the following is TRUE?

- a) Sahil is directly across the table from Aarti
- b) Sameer is the only one sitting between Aarti and Anil
- c) Sahil is second to the left of Aarti
- d) Sita is sitting third to the left of Biswas

**Direction (52-54):** Study the following information carefully and answer the questions given below:

Seven family members of three generations are sitting in a row and all are facing North. Three persons sit between V's father and V's sister, who sits at extreme end. S is grandson of P, who is mother in law of U. T is husband of R and sits at extreme end. V is son of Q, who sits 2nd to the left of T. Three persons sit between Q and R. P sits 2nd to the left of S, who doesn't sit next to T. One person sits between V and R's son.

**52.** Who among the following sits 2nd to the left of V's wife?

- a) P
- b) Q
- c) R
- d) S

**53.** How is Q related to T?

- a) Father
- b) Mother
- c) Father in law
- d) Mother in law

**54.** How many persons are sitting between son of T and father in law of U?

- a) 1
- b) 2
- c) 3
- d)  $\geq 3$

**Direction (55-56):** Study the following information carefully and answer the questions given below:

- (a) A & B means A is 15 m to the north of B
- (b) A  $\otimes$  B means A is 23 m to the east of B
- (c) A \$ B means A is 20 m to the south of B
- (d) A % B means A is 12 m to the west of B

**55.** If P % Q \$ R & S  $\otimes$  T \$ U is true and Point X is 5m to the south of T, then what is the shortest distance between point X and point P?

- a) 6m
- b) 8m
- c) 10m
- d) 11m

**56.** What is the shortest distance between Point P and Point S?

- a) 11m
- b) 12m
- c) 13m
- d) 14m

**Direction (57-60) :** A number arrangement machine when given an input line of numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input** : 734269 825497 647538 219354 961357 321658  
**Step I** : 962437 794528 835746 453912 753169 856123  
**Step II** : 453912 753169 794528 835746 856123 962437  
**Step III** : 135924 135796 579248 357468 135268 379246  
**Step IV** : 3458 33554 351832 152848 31048 211824  
**Step V** : 20 20 22 28 16 18

**Step V** 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** : 856347 745982 329584 512379 954267 463512

57. What is the difference between the 3rd number from left in step II and 2nd number from right in step IV?
- a) 391834                      b) 391826                      c) 134099                      d) 134091
58. Which of the following number is 3rd from right in step V?
- a) 10                              b) 20                              c) 22                              d) None of these
59. What will come when the number which is 2nd from right in step IV is divided by the number which is 2nd from left in final step?
- a) 14912                      b) 15992                      c) 13592                      d) 12952
60. What is the sum of 2nd number from left in step II and 4th number from right in step III?
- a) 1119927                      b) 1121707                      c) 647015                      d) 648795
61. There are three series given in a question, you have to find value of x, y and z in each question and then establish relation among them.
- 102, 107, 117, 134, (x)  
 130, 115, 135, 110, (y)  
 (z), 80, 120, 300, 1050
- a)  $x > y = z$                       b)  $y < x = z$                       c)  $x = y = z$                       d)  $y > x > z$

**62.** How many such numerals are there in the number '645903287' which will remain at the same position when arranged in ascending order from left to right?

- a) 3                      b) 2                      c) 1                      d) 4

**63. Read the given statements and conclusions carefully.**

Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

- Only a few East are North.
- Few North are South.
- All South are West.

- a) Only conclusions I follow  
b) Only conclusions II follow

**Conclusions:**

- I.** All East being North is a possibility.  
**II.** Some East are West  
c) Either conclusion I or II follows  
d) Neither conclusion I nor II follows

**64.** If "624739854" 1 is added to all the even number and 1 is subtract from all the odd number, then what is the sum of the digits which is fifth from the left end and fourth from the right end?

- a) 12                      b) 9                      c) 11                      d) 10

**65.** Find the next term in this series: 3L12, 9N14, 27P16, ...?...

- a) 80R18                      b) 81S18                      c) 80S18                      d) 81R18

**66.** Read the statements and select a conclusion from the given alternatives:

**Statements:**

- Some benches are autos
- All the boxes are autos
- All the pens are benches

- a) Only (1) & (2)      b) Only (1) & (3)      c) Only (2) & (3)      d) None of three

**Conclusions:**

- (1) Some benches are boxes  
(2) No pen is auto  
(3) Some boxes are benches

**67.** If PIXIE is OHXHD then ELEANOR is

- a) DKDAMNQ                      b) DDKAMNR                      c) DKDANMR                      d) DJDAMNQ

**Direction (68-70) :** Study the following information carefully and answer the questions given below :

Seven persons were born in different years i.e. 1953, 1963, 1968, 1976, 1990, 1993, 1998. 2019 is the base year for measuring the age of all persons. Not more than two persons were born before P. One person was born between V and S and none of them have even numbered age. There are as many persons were born before U as after Q. Difference between the age of T and S is not less than 20 years. T was born before Q and after R. Either P or U have odd numbered age.

**68.** Which of the following pair of combination is true?

- a) P-29                      b) Q-26                      c) R-56                      d) S-43

**69.** How many persons are younger than U?

- a) 1                          b) 2                          c) 3                          d) More than 3

**70.** What is the sum of the age of R and S?

- a) 92                          b) 69                          c) 87                          d) 50

**71.** In a certain code, 'RIDE' = 3218, 'TALK' = 7564, 'DIRT' = 4213 and 'LIKE' = 8562. Which digit represents 'A'?

- a) 9                          b) 3                          c) 5                          d) 7

**72.** In the given word 'SPLENDOR', in which consonant changed into its previous letter and the vowel into its next letter (according to the alphabetical order) and then all letters are arranged in alphabetical order from left to right then which of the following letter is fifth from the left end?

- a) R                          b) O                          c) K                          d) M

**73.** Hemant said to Naitik, "That boy playing with the football is the younger of the two brothers of the daughter of my father's wife." How is the boy playing football related to Hemant?

- a) Son                          b) Brother                      c) Cousin                      d) Nephew

**74.** Rearrange the jumbled letters to make a meaningful word and then select the one which is different.

- a) OLEMN                      b) PEALP                      c) OGREAN                      d) OTTOPA

75. Read the following data carefully and answer the question based on it.

- |  |   |
|--|---|
| 1. $A + G$ means 'A is mother of G'      | 3. $A - G$ means 'A is husband of G'            |
| 2. $A \div G$ means 'A is daughter of G' | 4. $A \times G$ means 'A is maternal aunt of G' |

If  $L + M \times N$  then how is L related to N?

- a) Aunt                      b) Mother                      c) Daughter                      d) Grandmother

76. Given below is a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

**Statement:** Ainit can make students understand the complex mathematical problems in a easy way.

**Assumptions:**

- |                           |                                 |
|---------------------------|---------------------------------|
| I. Amit likes Mathematics | II. Amit can teach physics well |
|---------------------------|---------------------------------|

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| a) Both I and II are implicit     | c) Neither I nor II is implicit  |
| b) Only assumption II is implicit | d) Only assumption I is implicit |

77. In the following question, the statement is followed by two conclusions. Which of the two conclusions is/are true?

**Statement:**

$A > M > R = F \geq Z < X < C < V > B > N$

**Conclusions:**

- |               |             |
|---------------|-------------|
| I. $A \geq Z$ | II. $Z < V$ |
|---------------|-------------|

- |                                       |  |
|---------------------------------------|--|
| a) Only conclusion I is true          | c) Only conclusion II is true          |
| b) Both conclusions I and II are true | d) Neither conclusion I nor II is true |

78. Consider the given statement and decide which of the given assumption(s) is/are implicit in the statement.

**Statement:**

The headmistress annouced, "From now on every Wednesday there will be a storytelling session after Assembly".

**Assumptions:**

- 1) Teacher wants children to read stories.
- 2) Teacher wants children to write their own stories.

- |                                 |                               |
|---------------------------------|-------------------------------|
| a) Only I is implicit           | c) Only II is implicit        |
| b) Neither I nor II is implicit | d) Both I and II are implicit |

- 79.** Given is a question followed by two arguments. Decide which of the arguments is/are Strong with respect to the question.

**Question:**

Should we avoid overuse of air conditioners?

**Arguments:**

**I.** Yes, it weakens the human system

**II.** No, the comfort cannot be forsaken

a) Only argument I is strong

c) Only argument II is strong

b) Both arguments I and II are strong

d) Neither argument I nor II is strong

- 80.** Given below is a set of statements followed by two assumptions numbered I and II. You have to consider the statements and the following assumptions and decide which of the assumptions is implicit in the statements.

**Statement:**

He is health conscious. He walks 4 kms every day and consumes only healthy food.

**Conclusions:**

**I.** He does not eat junk food

**II.** On weekends, he walks for more than 4 kms

a) Neither assumption I nor II is implicit

c) Only assumption II is implicit

b) Only assumption I is implicit

d) Both assumptions I & II are implicit

- 81.** You are given a question and two statements. Identify which of the statements is/are necessary/sufficient to answer the question.

**Question:**

Among the bags A, B, C and D which one is the lightest bag?

**Statements:**

(1) B is heavier than A

(2) A is lighter than C and D

a) (2) alone is sufficient

c) (1) alone is sufficient

b) (1) & (2) together are necessary

d) (1) & (2) are not sufficient to solve

- 82.** Find the odd one out.

A	B	C	D
1595	1425	1725	1325
AEIE	ADBE	AGBE	ACBE

a) C

b) D

c) A

d) B



**83.** You are given a question and three statements. Identify which of the statements is/are necessary/sufficient to answer the question.

**Question :**

L, M, N, O and P are standing in a circle facing the centre. Who is standing to the right of L?

**Statements:**

- (1) Next to L are P and M
- (2) O is standing to the right of P
- (3) O is standing to the left of N
- c) The statements are insufficient
- d) (1) alone is sufficient

- a) (1) & (2) together is sufficient
- b) (1) & (2) are not sufficient

**84.** Read the given statement and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

**Statement:**

- All petals are flowers
- Some petals are yellow
- All yellows are flowers

**Conclusions:**

- a) Only conclusion 2 follows
- b) Only conclusion 1 follows
- 1) All flowers are yellow
- 2) All yellows are petals
- c) Both the conclusions follow
- d) None of the conclusions follow

**85.** If South becomes South-West, then what will North become?

- a) South-West
- b) North-West
- c) North-East
- d) South-East

**86.** A question and two statements labeled 1,2 are given. You have to decide which statement(s) is/are sufficient to answer the question.

**Question :**

Gowtham ranks eighteenth in a class. What is his rank from the last?

**Statements :**

- (1) There are 47 students in the class.
- (2) Jegan who ranks 10th in the same class, ranks 38th from the last.
- a) (1) alone is sufficient
- b) (1) & (2) together are sufficient
- c) Statement (2) alone is sufficient
- d) Either (1) or (2) alone is sufficient

87. If A denotes  $\div$ , B denotes  $\times$ , C denotes  $+$  and D denotes  $-$ , then which of the following statements is true?

a)  $11 B 34 A 17 D 8 A 3 = 38/3$

c)  $32 C 8 A 16 D 4 = -3/4$

b)  $6 B 18 D 26 A 13 C 7 = 173/13$

d)  $9 C 9 A 9 D 9 B 9 = -71$

88. What will be the next set of numbers in the series?

(2,3), (3,5), (5,7), (7,11), (11,13), ...?...

a) (13,15)

b) (15,17)

c) (13,17)

d) (13,19)

89. In a certain code language,

'we do different things' is written as 'ne tz iq dp'

'do good deeds always' is written as 'ge qd dp yc'

'we hate evil deeds' is written as 'um ol qd tz'

'some persons like evil good' is written as 'yc rc um tl zp'

Which of the following is the code for 'always' in the given code language?

a) ge

b) gd

c) dp

d) vc

90. Find the wrong term in the given series. 36, 40, 89, 284, 1157, 5821

a) 40

b) 89

c) 284

d) 1157

91. A cube painted red on all faces is cut into 343 cubes of the same size. How many cubes are painted on one face only?

a) 150

b) 125

c) 217

d) None of these

92. The pie-chart provided below gives the distribution of land (in a village) under various food crops. Study the pie-chart carefully and answer the questions that follow:

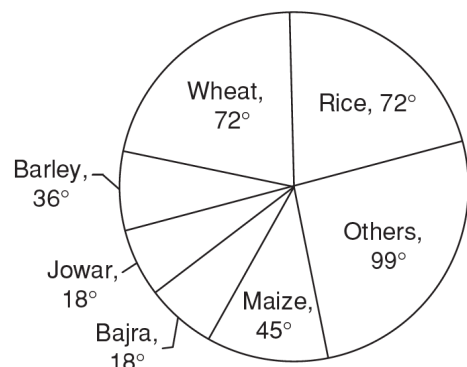
If the total area under bajra was three hundred acres, then the total area (in hundred acres) under rice and barely together is:

a) 18

c) 12

b) 15

d) 20



93. Study the bar diagram and answer questions based on it.



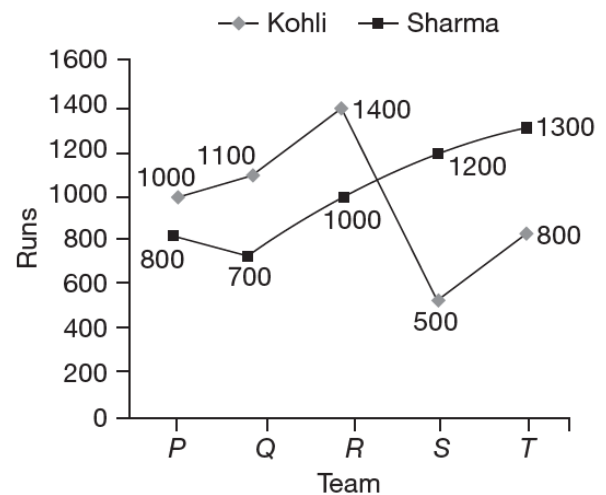
The number of persons killed in coal mines in 2006 was what per cent of those killed in industrial accidents in that year?

- a) 4                                      c) 25  
 b) 36                                     d) 300

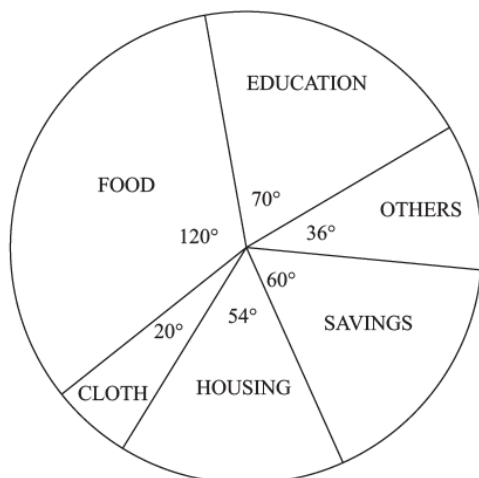
94. The line chart below represents the runs scored by Kohli and Sharma against 5 teams.

Runs scored by Kohli against team S is how much percent less than the runs scored by Sharma against team S?

- a) 70.21                                  c) 68.33  
 b) 58.33                                  d) 41.66



95. The pie-chart given here shown expenditure incurred by a family on various items and their savings. Study the chart and answer the questions based on the pie-chart.



If the expenditure on education is Rs.1600 more than that of housing then the expenditure on food is:

- a) 6000                                      c) 12000  
 b) 7000                                     d) 3333

96. The following table gives zonewise survey report of the people of a country who take coffee.

Take coffee	Zone			
	North	East	West	South
More than 3 times a day	410	310	700	1450
1 to 3 times a day	1220	830	1250	1120
Twice a week	1640	710	950	420
Only once a week	620	540	530	350
Never	950	430	620	50

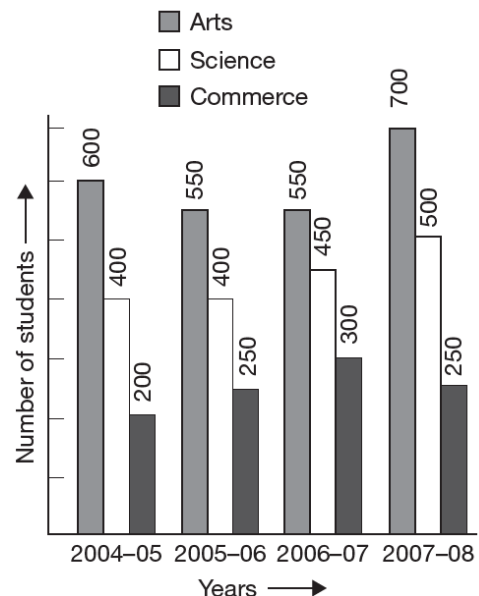
The ratio of the total number of people surveyed who take coffee more than 3 times a day to the total number of people who do not take coffee at all is

- a) 1 : 1.4                      c) 1.4 : 1  
b) 1.5 : 1                      d) 1 : 1.1

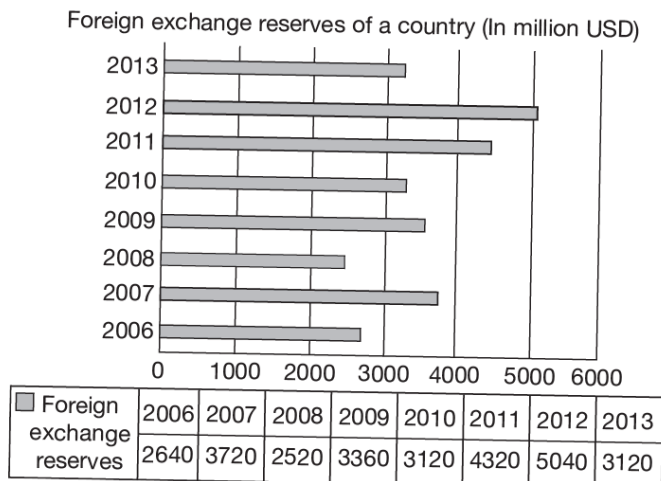
97. Student's strength of a college in Arts, Science and Commerce from 2004-05 to 2007-08 Session are shown in the following bar graph. Study the graph and answer the questions.

The % increase in Science students in 2007-08 over 2006-07 was

- a) 16.7%  
b) 10.1%  
c) 11.1%  
d) 18.2%



98. Study the following bar-diagram carefully and answer the questions.



The foreign exchange reserve in 2012 was how many times that in 2009?

- a) 0.7  
b) 1.4  
c) 1.2  
d) 1.5

99. Study the following pie Chart carefully and answer the questions. The pie chart represents the percentage of people involved in various occupations.

Total number of people = 20000



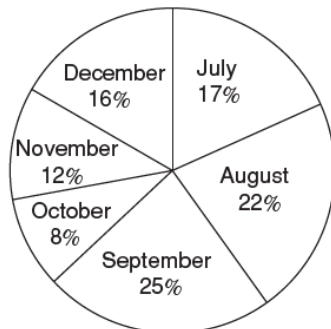
The sectoral angle made by the people involved in service in the given pie-chart is

- a)  $36^\circ$                       c)  $90^\circ$   
b)  $72^\circ$                       d)  $108^\circ$

100. Study the following pie-chart and table carefully and answer the questions given below:

Percentage wise distribution of the number of mobile phones sold by a shopkeeper during six months.

Total number of mobile phones sold = 45000



The ratio between the numbers of mobile phones sold of Company A and Company B during six months

Month	Ratio
July	8:7
August	4:5
September	3:2
October	7:5
November	7:8
December	7:9

If 35% of the mobile phones sold by Company A during November were sold at a discount, how many mobile phones of Company A during that month were sold without a discount?

- a) 882  
b) 1638  
c) 1635  
d) 885