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Reasoning Ability

Directions (1-5): Study the following information carefully and answer the below questions

Eight persons-A, B, C, D, E, F, G and H are sitting in the linear row facing the north. All the information is not necessarily in the same order.

E sits on the end of the row. Only five persons sit between E and H. Only two persons sit between H and D. B sits second to the right of D. B and E are not immediate neighbours. G sits immediate right of A. The number of persons sits between G and B is the same as the number of persons sits between A and C.

1) Who sits second to the left of C?

- a) B
- b) E
- c) A
- d) G
- e) None of those give an option

2) Who among the following person sits to the right of B?

- I) H
 - II) F
 - III) G
 - IV) A
- a) Only (I) and (II)
 - b) Only (I) and (IV)

- c) Only (I) and (III)
- d) Only (II) and (IV)
- e) All (I), (II), (III) and (IV)

3) If one neighbour of C is B, who is the second one?

- a) F
- b) E
- c) G
- d) A
- e) D

4) How many persons sit between G and H?

- a) Two
- b) Three
- c) Four
- d) Five
- e) One

5) If all the persons are arranged in alphabetical order from the left end, then how many persons are unchanged in their position?

- a) Three
- b) Two
- c) One
- d) None
- e) More than three

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

2©\$143A = GIL95#KM+@E5*09^H%J!0₹8B

6) How many such vowels are there which is immediately followed by a number?

- a) One
- b) Three
- c) Two
- d) Four
- e) None

7) Find the next element in the following series?

2\$3, =I5, M@*, ?

- a) HJ0
- b) HJ₹
- c) ^%0
- d) !0₹
- e) None of these

8) Four of the following five are alike in a certain way and thus form a group as per the given arrangement. Which of the following does not belong to that group?

- a) 2©\$
- b) A=I
- c) L9#
- d) +@5
- e) *O^

9) Which is the 15th element to the right of the 12th element from the left end?

- a) #
- b) H
- c) J
- d) !
- e) ₹

10) How many letters are immediately preceded and followed by a symbol?

- a) Three
- b) Two
- c) One
- d) Four
- e) None

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

Eight persons- L, M, N, O, P, Q, R, and S are sitting on the circular table facing the center. All the information is not necessarily in the same order.

N sits second to the left of S. Only two persons sit between S and M. P sits second to the right of M. The number of persons sits between P and M is the same as the number of persons sit between M and L. O sits second to the left of R. Q and O are not immediate neighbors.

11) Who among the following person sits immediate left of N?

- a) P
- b) R
- c) M
- d) O
- e) L

12) If S is related to O and M is related to P in a certain way. Then who among the following is related to N?

- a) R
- b) M
- c) O
- d) L
- e) None of the above

13) Who among the following person sits opposite to M?

- a) R
- b) P
- c) N
- d) Q
- e) L

14) What is the position of L with respect to Q?

- a) Second to the left
- b) Immediate right
- c) Third to the left

- d) Second to the right
- e) Immediate left

15) How many persons sit between S and R when counted to the right of S?

- a) One
- b) Two
- c) Three
- d) Four
- e) None

Direction (16-20): In each of the following questions, the relationship between different elements is shown in the statements followed by two conclusions. Find the conclusion which logically follows.

16) Statements:

$$J \leq I \geq K > L \leq N > G = O < Q$$

Conclusions:

- I. $I \leq Q$
- II. $L < I$
- a) None follows
- b) Only I follow
- c) Only II follow
- d) Both I and II follows
- e) Either I or II follows

17) Statements:

$$X \leq Y = Z < W \geq V = U$$

I. $W \geq U$

II. $Z \geq X$

A. Only I follows

B. Both I & II follow

C. Either I or II follows

D. Only II follows

E. None of these

18) Statements:

$F \leq A < S > Z \geq P \geq B = R < D$

Conclusions:

I. $R < S$

II. $A < P$

a) None follows

b) Only I follow

c) Only II follow

d) Both I and II follows

e) Either I or II follows

19) Statements:

$I = J < M = L \geq K = N$

I. $N \leq I$

II. $L > N$

A. Only I follows

B. Neither I nor II follows

C. Both I and II follows

D. Only II follows

E. None of these

20) Statements:

$N \geq P = S > T = I; M < H \leq G < I;$

Conclusions:

I. $M < P$

II. $N \geq G$

A. If only I follows.

B. If only II follows.

C. If either I or II follows.

D. If neither I nor II follows.

E. If both I and II follow.

Directions (21-25): Study the following information carefully and answer the below questions

Seven boxes- A, B, C, P, R, S and Z are kept one above another in the stack. The lowermost shelf is numbered as one and the topmost shelf is numbered as seven. All the information is not necessarily in the same order.

Box A is kept adjacent to Box B. Only two boxes are between B and C. Box C is kept below box B and box A. Box S is kept immediately above box R, none of the boxes are kept below box A. Box P and Box Z are kept below Box B. The number of boxes kept above box R is the same as the number of boxes kept below box Z.

21) Which of the following box is kept immediately above C?

a) Box R

- b) Box B
- c) Box S
- d) Box Z
- e) Box P

22) How many boxes are kept above box A?

- a) Three
- b) Two
- c) Four
- d) Five
- e) One

23) Four of the following are alike a certain way and hence forms a group. Which of the following does not belong to the group?

- a) SA
- b) RB
- c) PC
- d) AP
- e) CR

24) Which of the following shelf does box P has kept?

- a) Fourth
- b) Fifth
- c) Third
- d) Second
- e) Sixth

25) If all boxes are arranged in alphabetical order from the top, then how many boxes are unchanged in their positions?

- a) None
- b) Three
- c) Two
- d) One
- e) More than three

Direction (26-28): Study the following information carefully and answer the below questions

A family consists of seven members- A, B, C, D, E, F, and G and two married couples. C is the sister-in-law of G, vice versa. A is the father of F. G is the only daughter of D. B is the father-in-law of C. E and A are siblings. F is the niece of G. E is unmarried. C has no siblings.

26) Who among the following is the mother of F?

- A.G
- B.C
- C.D
- D.E
- E.None of the above

27) Which of the following statement is true with respect to E?

- A.E and C are married couples
- B.E is the son of C

C.E is the father of G

D.E is the brother-in-law of C

E.All are true

28) Four of five among the following are based on a certain group. which one does not belong to the group?

A.B

B.C

C.G

D.D

E.F

Direction (29-32): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

29) Statement

Only a few Ellipse is Nonagon

All Nonagon is Rhombus

Some Rhombus is Decagon

Conclusion

I. No Nonagon is Decagon

II. All Decagon can never be Nonagon

a) If Only conclusion I follows.

b) If Only conclusion II follows.

c) If either conclusion I or II follows.

d) If Neither conclusion I nor II follows.

e) If both conclusions I and II follow.

30) Statements:

Some mouse is keyboard

All keyboard is laptop

Only a few laptop is CPU

Conclusions:

I. All keyboard can be CPU

II. Some mouse is laptop

A.Only conclusion II follows

B.Only conclusion I follows

C.Both conclusion I and II follow

D.Either conclusion I or II follows

E.Neither conclusion I nor II follows

31) Statements:

Only tablet is mobile

Some tablet is laptop

Only a few laptop is computer

Conclusions:

I. Some laptop can be mobile

II. Some laptop is not computer

A.Only conclusion I follows

B.Only conclusion II follows

C.Neither conclusion I nor II follows

D.Either conclusion I or II follows

E.Both conclusion I and II follow

32) Statement

Only a few Mouse is Bat

No Bat is Cow

Some Cow is Goat

Conclusion

I. Some Goat is Mouse

II. All Goat being Bat is a possibility

a) If Only conclusion I follows.

b) If Only conclusion II follows.

c) If either conclusion I or II follows.

d) If Neither conclusion I nor II follows.

e) If both conclusions I and II follow.

Directions (33-37): Study the following information carefully and answer the below questions

Six persons- P, Q, R, S, T, and U are attending the seminar on two different dates either 15 or 18 of three different months- April, May, and June of the same year. All the information is not necessarily in the same order.

T attends two persons before Q. Q attends on the odd number date of the month. The number of persons attends before T is the same as the number of persons attend after U. S attends immediately before P. R does not attend adjacent to T.

33) Who among the following attends immediately before R?

a) S

b) P

c) T

d) U

e) Q

34) Who among the following person attends on April 15th?

a) R

b) U

c) T

d) P

e) S

35) Which of the following statement is/are true?

I. T attends on an even number date

II. Q attends immediately before S

III. P and T attend on different months

IV. S attends in the month which has an even number of days

a) Only I and III

b) Only III and IV

c) Only II and III

d) Only II and IV

e) None of these

36) On which of the following month and date does U attend the seminar?

a) June 15

b) June 18

- c) May 15
- d) May 18
- e) April 15

37) How many persons are attending the seminar after T?

- a) One
- b) Two
- c) Three
- d) Four
- e) None

38) If all the letters of the word "BROWNIE" are arranged in alphabetical order from the left end, then which of the following letter is second from the right end?

- a) O
- b) R
- c) N
- d) E
- e) W

39) How many pairs of digits are there in the number "3614729" each of which has as many digits between them in the number as in the number series? (Both Forward and Backward direction)

- a) Six
- b) Seven

- c) Five
- d) More than seven
- e) Four

40) In a certain code language, If "FRIED" is written as "QEJCF" and "PLANT" is written as "KOBSM", Then how is "SHOWN" will be written in that code language?

- a) HSPMV
- b) GRPMV
- c) GRPOV
- d) TGPMX
- e) TRPMX

Quantitative Aptitude

Directions (41-45): What value should come in the place of (?) in the following number series?

41) 7, 3.5, 3.5, 7, 28, ?

- a) 224
- b) 228
- c) 232
- d) 248
- e) 245

42) 6, 5, 9, 26, ?, 514

- a) 52
- b) 104
- c) 103
- d) 56

e) 98

43) 6, 10, 15, 22, 32, ?

a) 46

b) 48

c) 50

d) 52

e) 56

44) 3, 17, 45, 87, ?, 213

a) 125

b) 143

c) 147

d) 137

e) 153

45) 9, 4, 24, 19, 39, ?

a) 32

b) 30

c) 34

d) 36

e) 38

Directions (46-57): What value should come in the place of (?) in the following questions.

46. $48 \div 256 \times 64 \div 4^3 \times 4 = 16 \times 4^?$

A.7

B.3

C.2

D.5

E. None of these

47. $(24 \times \sqrt{169}) \times 15 = ? \times \sqrt{1296}$

A.160

B.120

C.180

D.110

E.130

48. $(14^3 \times 5) \div 28 = ? - (13 \times 30)$

A.680

B.730

C.780

D.820

E.880

49. 12.5% of 240 + 37.5% of 320 + 62.5% of 400 = ?

A.400

B.420

C.450

D.480

E.360

50. $24^2 - 19^2 = ? \times 12 - 17^2$

A.49

B.45

C.41

D.42

E.44

51) $57 * 22 + 38 * 18 = ? * 19$

a) 107

b) 100

c) 102

d) 104

e) 108

52) $(1587 \div \sqrt{4761}) * (1209 \div \sqrt{8649}) = ?$

a) 283

b) 287

c) 299

d) 295

e) 301

53) $45\% \text{ of } 420 + 120\% \text{ of } 220 = ?$

a) 453

b) 458

c) 461

d) 467

e) 472

54) $\sqrt{4489} + \sqrt{1849} - \sqrt{841} = ?^2$

a) 7

b) 5

c) 8

d) 6

e) 9

55) $26 * 23 - 13 * 19 = ? + 7 * 12$

a) 267

b) 232

c) 248

d) 236

e) 240

56) $(2324 \div 73) * (1095 \div 83) = ? * 35$

a) 17

b) 11

c) 15

d) 18

e) 12

57) $65\% \text{ of } 420 - 85\% \text{ of } 240 = ?$

a) 62

b) 66

c) 64

d) 69

e) 72

58) x liters of oil is Rs.90 per liter and 60 liters of water is Rs.(x + 10) per liter. If sold the mixture of oil and water for Rs.48 per liter making a total profit of 60%, then find the value of x?

a) 12

b) 15

- c) 10
- d) 18
- e) 20

59) Car A started from Chennai towards Bangalore at 8 am and car B started from Bangalore towards Chennai at 8 am. If the distance between Chennai and Bangalore is 960 km and they met at 4 pm and car B covers 192 km more than that of car A, then find the speed of car A?

- a) 36 kmph
- b) 45 kmph
- c) 40 kmph
- d) 48 kmph
- e) 52 kmph

60) Ratio of the marked to cost price of the article is 7:5. If the shopkeeper offers two successive discounts of 20% and Rs.450 while he gets the profit of 4.5%, then find the selling price of the article?

- a) Rs.6240
- b) Rs.6270
- c) Rs.6300
- d) Rs.6330
- e) None of these

61) Ratio of the ages of A and B is 5:4. After 8 years, the ratio of the ages of B and C is 3:1. Difference between the age of A and C is 31 years, then find the age of C after 6 years?

- a) 12 years
- b) 14 years
- c) 16 years
- d) 18 years
- e) None of these

62) Ratio of the efficiency of A to B and C together is 2:3. If the efficiency of B is 50% more than C and C alone complete the half of the work in 15 days, then find the time taken by A alone to complete the work?

- a) 15 days
- b) 18 days
- c) 12 days
- d) 24 days
- e) None of these

63) Sahul invests Rs.x in a simple interest scheme at the rate of R% per annum for 4 years. If the ratio of the interest received by Sahul to x is 3:5, then find the value of R?

- a) 12
- b) 10
- c) 15
- d) 18

e) 20

64) Shalini started the business with the investment of Rs.3600. After 4 months, Reena entered into the business by investing Rs.3900. If the profit share of Shalini and Reena is Rs.(x + 1000) and Rs.x respectively, then find the profit share of Reena?

- a) Rs.2600
- b) Rs.3200
- c) Rs.3900
- d) Rs.1300
- e) None of these

65) The ratio of the length to breadth of the rectangular room is 5:3 and the side of the square is 15 cm. If the area of the rectangular room is 150 cm² more than the area of the square, find the perimeter of the rectangular room?

- a) 80 cm
- b) 90 cm
- c) 100 cm
- d) 120 cm
- e) 60 cm

66) If the height of the equilateral triangle is $5\sqrt{3}$ cm, then find the area of the equilateral triangle?

- a) $24\sqrt{3}$ cm²

b) $25\sqrt{3}$ cm²

c) $32\sqrt{3}$ cm²

d) $27\sqrt{3}$ cm²

e) $30\sqrt{3}$ cm²

67) A boat can travel 680 km upstream and downstream in 88 hours. If the speed of boat in downstream is 24 kmph more than the speed of upstream, then find the time taken by the boat to cover 330 km in still water?

- a) 12 hours
- b) 15 hours
- c) 18 hours
- d) 20 hours
- e) None of these

68) Ratio of the ages of Sachin and Dhoni after 15 years is 15:11 and the present age of Dravid is 25% more than the present age of Dhoni. If the sum of the present age of Sachin and Dravid is 110 years, then find the present age of Dhoni?

- a) 40 years
- b) 51 years
- c) 29 years
- d) 27 years
- e) None of these

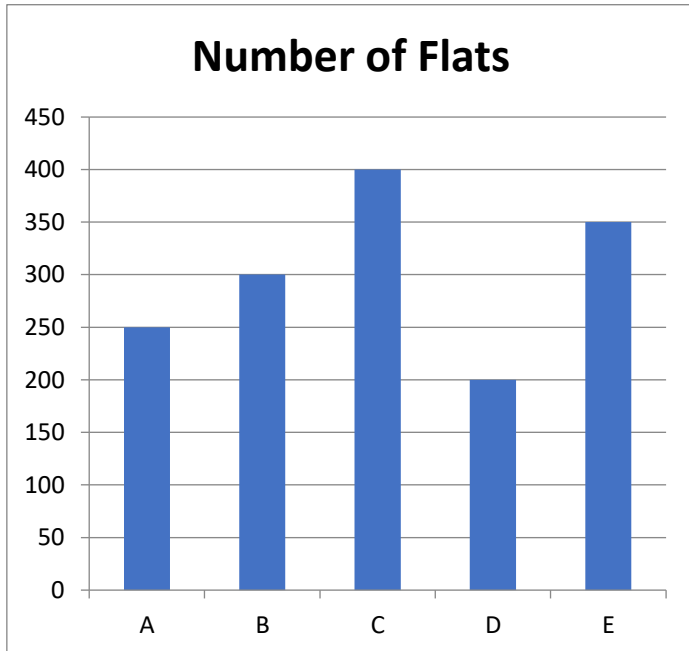
69) Sum of the cost price of an Eraser and Pencil is Rs.15. The shopkeeper sold an Eraser

at a loss of 42.5% and the Pencil at a profit of 15%. If the selling price of an eraser and pencil is equal, then find the cost price of eraser?

- a) Rs.8
- b) Rs.10
- c) Rs.12
- d) RS.6
- e) Rs.9

Directions (70-75): Study the following information carefully and answer the questions given below.

The given bar graph shows the number of flats in five different societies – A, B, C, D and E.



70) What is the difference between the number of flats in A and E?

- a) 50
- b) 100

- c) 150
- d) 80
- e) 200

71) The cost of a flat in A and C is Rs.2 lakh and Rs.3 lakh respectively. Find the average of the revenue collection of A and C?

- a) Rs.760 lakh
- b) Rs.800 lakh
- c) Rs.750 lakh
- d) Rs.850 lakh
- e) Rs.700 lakh

72) The number of flats in F is 25% more than that of B. If the number of flats in G is 20 more than that of F, then find the number of flats in G?

- a) 385
- b) 375
- c) 395
- d) 365
- e) None of these

73) Find the average number of flats in all the societies together?

- a) 250
- b) 300
- c) 200
- d) 350
- e) 400

74) Ratio of the number of red and black color flats in D is 3:2. Find the difference between the number of red and black flats in D?

- a) 30
- b) 20
- c) 50
- d) 60
- e) 40

75) The number of flats in A and E together is what percent of the number of flats in B and C together?

- a) 85.7%
- b) 87.5%
- c) 89.5%
- d) 83.5%
- e) 80.5%

Directions (76-80): Study the following information carefully and answer the questions given below.

The given table shows the number of dancers and painters in five different academies.

Academy	Dancers	Painters
A	120	100
B	160	120
C	180	240
D	100	180
E	200	220

76) The number of dancers in F is 30% more than that of B and the number of painters in F is 40% more than that of D. Find the difference between the number of painters and dancers in F?

- a) 44
- b) 48
- c) 52
- d) 56
- e) 60

77) What is the ratio of the number of dancers in A and E together to the number of painters in B and C together?

- a) 7:8
- b) 8:9
- c) 11:12
- d) 15:16
- e) None of these

78) The number of painters and dancers in E is what percent of the number of painters in A, C and E together?

- a) 70%
- b) 80%
- c) 90%
- d) 75%
- e) 85%

79) The number of dancers in F is equal to the average number of dancers in C, D and E. If the ratio of the number of dancers and painters in F is 8:9, then find the number of painters in F?

- a) 140
- b) 180
- c) 160
- d) 200
- e) 150

80) Find the average number of painters in all the academies together?

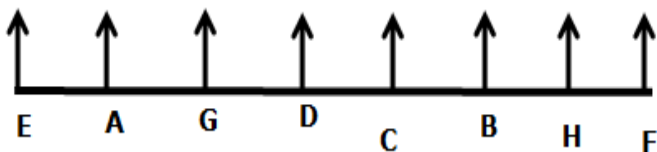
- a) 168
- b) 170
- c) 172
- d) 176
- e) None of these

Answer With Explanation

Directions (1-5):

- 1) Answer: D
- 2) Answer: A
- 3) Answer: E
- 4) Answer: B
- 5) Answer: C

Final Arrangement



Directions (6-10):

6) Answer C

2 @ \$ 1 4 3 A = G I L 9 5 # K M + @ E 5 * 0 9 ^ H % J ! 0 ₹ 8 B
E5, O9.

7) Answer B

2 @ \$ 1 4 3 A = G I L 9 5 # K M + @ E 5 * 0 9 ^ H % J ! 0 ₹ 8 B
2 \$ 3, = I 5, M @ *, H J ₹

8) Answer A

2 @ \$ 1 4 3 A = G I L 9 5 # K M + @ E 5 * 0 9 ^ H % J ! 0 ₹ 8 B

2 @ \$, A = I, L 9 #, + @ 5, * O ^

The odd one is 2 @ \$,

9) Answer C

2 @ \$ 1 4 3 A = G I L 9 5 # K M + @ E 5 * 0 9 ^ H % J ! 0 ₹ 8 B
15 + 12 = 27

The 27th letter from the left end is J.

10) Answer B

2 @ \$ 1 4 3 A = G I L 9 5 # K M + @ E 5 * 0 9 ^ H % J ! 0 ₹ 8 B
^ H %, % J !.

Directions (11-15):

11) Answer: A

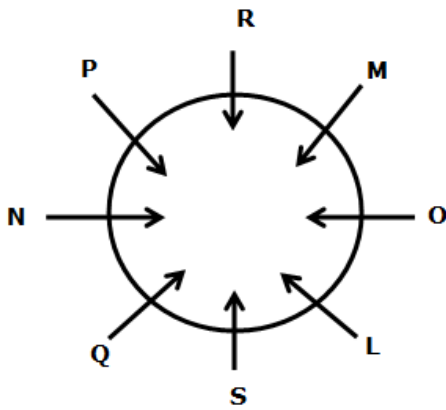
12) Answer: A

13) Answer: D

14) Answer: D

15) Answer: C

Final arrangement



16) Answer: C

Given: $J \leq I \geq K > L \leq N > G = O < Q$

Hence, Only II follows

17) Answer: B

$X \leq Y = Z < W \geq V = U$

I. $W \geq U$ follows

II. $Z \geq X$ follows

Hence, both I and II follow.

18) Answer: B

Given: $F \leq A < S > Z \geq P \geq B = R < D$

Hence, Only I follow

19) Answer: B

$I = J < M = L \geq K = N$

I. $N \leq I$ doesn't follow

II. $L > N$ doesn't follow

Hence, Neither I nor II follows.

20) Answer: A

I. $M < P$ ($M < H \leq G < I = T < S = P$) → follows

II. $N \geq G$ ($N \geq P = S > T = I > G$) → doesn't follow

Only conclusion I follows

Directions (21-25):

21) Answer: D

22) Answer: B

23) Answer: E

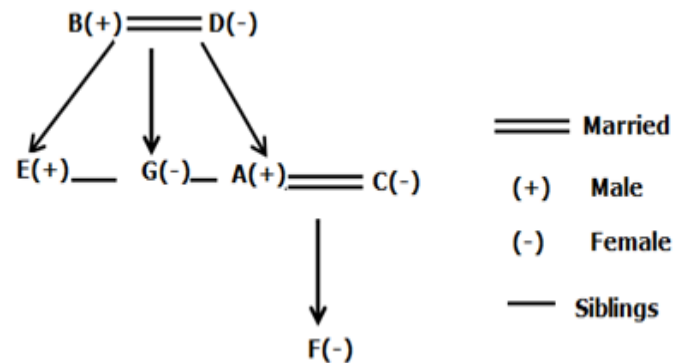
24) Answer: C

25) Answer: A

Final Arrangement

	Boxes
7	S
6	R
5	A
4	B
3	P
2	Z
1	C

Direction (26-28):

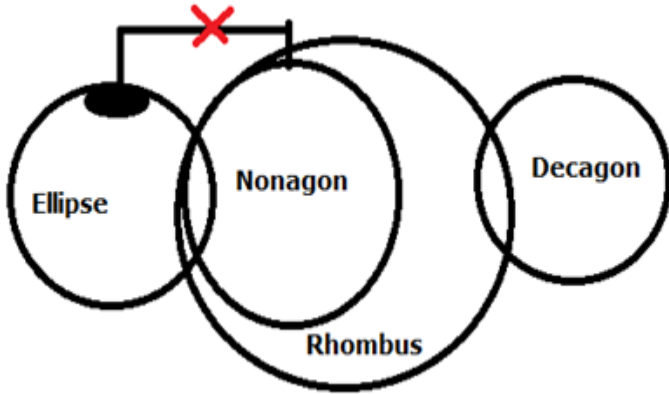


26) Answer: B

27) Answer: D

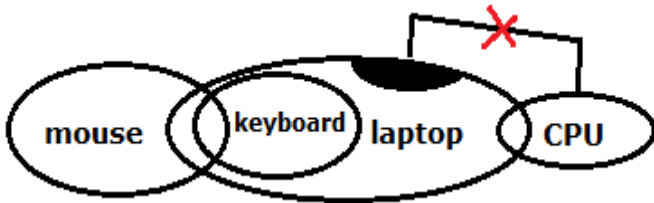
28) Answer: A

29) Answer: D

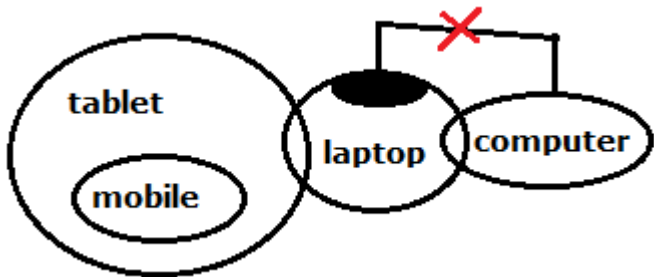


Neither conclusion I nor II follows.

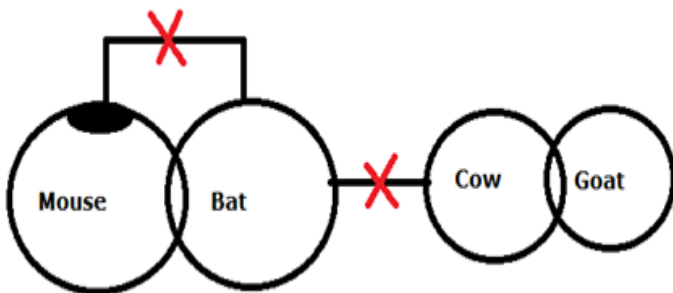
30) Answer: C



31) Answer: B



32) Answer: D



Neither conclusion I nor II follows.

Directions (33-37):

33) Answer: E

34) Answer: E

35) Answer: B

36) Answer: D

37) Answer: C

Final Arrangement

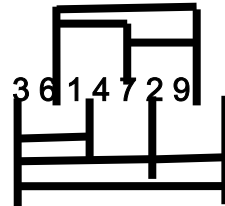
Month with Date	Person
April 15	S
April 18	P
May 15	T
May 18	U
June 15	Q
June 18	R

38) Answer: B

BROWNIE

BEINORW

39) Answer: B



31, 37, 39, 79, 64, 42, 62

40) Answer: B

Consonants → Changed to the immediate previous letter in the alphabetical order

Vowels → Changed to immediate next letter in the alphabetical order

F R I E D
 ↙ ↓ ↘
Q E J C F

S H O W N
 ↙ ↓ ↘
G R P M V

41) Answer: A

$$7 * 0.5 = 3.5$$

$$3.5 * 1 = 3.5$$

$$3.5 * 2 = 7$$

$$7 * 4 = 28$$

$$28 * 8 = 224$$

42) Answer: C

$$6 * 1 - 1 = 5$$

$$5 * 2 - 1 = 9$$

$$9 * 3 - 1 = 26$$

$$26 * 4 - 1 = 103$$

$$103 * 5 - 1 = 514$$

43) Answer: A

$$6 + 4 = 10$$

$$10 + 5 = 15$$

$$15 + 7 = 22$$

$$22 + 10 = 32$$

$$32 + 14 = 46$$

Difference of difference

44) Answer: B

$$3 + 2 * 7 = 17$$

$$17 + 4 * 7 = 45$$

$$45 + 6 * 7 = 87$$

$$87 + 8 * 7 = 143$$

$$143 + 10 * 7 = 213$$

45) Answer: C

$$9 - 5 = 4$$

$$4 + 20 = 24$$

$$24 - 5 = 19$$

$$19 + 20 = 39$$

$$39 - 5 = 34$$

46) Answer: B

$$4^{8 \div 4} \times 4^{3 \div 4} \times 4 = 4^2 \times 4^?$$

$$\Rightarrow 4^{(8 - 4 + 3 - 3 + 1)} = 4^{(2 + ?)}$$

$$\Rightarrow 4^5 = 4^{(2 + ?)}$$

$$\Rightarrow 5 = 2 + ?$$

$$\Rightarrow ? = 5 - 2$$

$$\Rightarrow ? = 3$$

47) Answer: E

$$(24 * \sqrt{169}) * 15 = ? * \sqrt{1296}$$

$$24 * 13 * 15 = ? * 36$$

$$? = 130$$

48) Answer: E

$$(14^3 * 5) \div 28 = ? - (13 * 30)$$

$$490 = ? - 390$$

$$? = 880$$

49) Answer: A

$$12.5\% \text{ of } 240 + 37.5\% \text{ of } 320 + 62.5\% \text{ of } 400 =$$

$$?$$

$$30 + 120 + 250 = ?$$

$$400 = ?$$

50) Answer: D

$$24^2 - 19^2 = ? * 12 - 17^2$$

$$576 - 361 = ? * 12 - 289$$

$$? = 42$$

51) Answer: C

$$57 * 22 + 38 * 18 = ? * 19$$

$$? = 102$$

52) Answer: C

$$(1587 \div \sqrt{4761}) * (1209 \div \sqrt{8649}) = ?$$

$$23 * 13 = ?$$

$$? = 299$$

53) Answer: A

$$45\% \text{ of } 420 + 120\% \text{ of } 220 = ?$$

$$? = 189 + 264$$

$$? = 453$$

54) Answer: E

$$\sqrt{4489} + \sqrt{1849} - \sqrt{841} = ?^2$$

$$67 + 43 - 29 = ?^2$$

$$? = 9$$

55) Answer: A

$$26 * 23 - 13 * 19 = ? + 7 * 12$$

$$? = 267$$

56) Answer: E

$$(2324 \div 73) * (1095 \div 83) = ? * 35$$

$$? = 12$$

57) Answer: D

$$65\% \text{ of } 420 - 85\% \text{ of } 240 = ?$$

$$? = 69$$

58) Answer: C

$$\text{CP of one liters of mixture} = 48 * 100/160 = \text{Rs.30}$$

$$(90 * x + 60 * (x + 10))/(x + 60) = 30$$

$$90x + 60x + 600 = 30x + 1800$$

$$120x = 1200$$

$$x = 10$$

59) Answer: D

$$\text{Distance travelled by car A} = x$$

$$\text{Distance covered by car B} = x + 192$$

$$x + 192 + x = 960$$

$$x = 384$$

$$\text{Speed of car A} = 384/8 = 48 \text{ kmph}$$

60) Answer: B

$$7x * 80/100 - 450 = 5x * 104.5/100$$

$$5.6x - 450 = 5.225x$$

$$x = 1200$$

$$\text{SP of the article} = 5 * 1200 * 104.5/100 = \text{Rs.6270}$$

61) Answer: E

$$A = 5x$$

$$B = 4x$$

$$B \text{ after 8 years} = 4x + 8$$

$$C \text{ after 8 years} = \frac{1}{3} * (4x + 8) = \frac{(4x + 8)}{3}$$

$$5x - ((4x + 8)/3 - 8) = 31$$

$$15x - 4x - 8 + 24 = 93$$

$$x = 7$$

$$C's \text{ age after 6 years} = (4 * 7 + 8)/3 - 8 + 6 = 10 \text{ years}$$

62) Answer: B

$$B = 100/150 * (15 * 2) = 20$$

$$B + C = 1/20 + 1/30 = 1/12$$

$$A \text{ alone complete the work} = 3/2 * 12 = 18 \text{ days}$$

63) Answer: C

$$3y = 5y * R * 4/100$$

$$R = 15$$

64) Answer: A

$$\text{Profit ratio of Shalini and Reena} = 3600 * 12 : 3900 * 8$$

$$= 18:13$$

$$\text{Profit share of Reena} = \frac{13}{5} * (x + 1000 - x) = \text{Rs.}2600$$

65) Answer: A

$$\text{Area of the rectangular room} = 15 * 15 = 225$$

$$\text{Area of rectangular} = 225 + 150 = 375$$

$$5x * 3x = 375$$

$$x = 5$$

$$\text{Length of the rectangular room} = 5 * 5 = 25 \text{ cm}$$

$$\text{Breadth of the rectangular room} = 5 * 3 = 15 \text{ cm}$$

$$\text{Perimeter of the rectangular room} = 2 * (25 + 15) = 80 \text{ cm}$$

66) Answer: B

$$\text{Height of the equilateral triangle} = 5\sqrt{3} \text{ cm}$$

$$5\sqrt{3} = \frac{\sqrt{3}}{2} * a$$

$$a = 10 \text{ cm}$$

$$\begin{aligned} \text{Area of equilateral triangle} &= \frac{\sqrt{3}}{4} * a * a \\ &= \frac{\sqrt{3}}{4} * 10 * 10 = 25\sqrt{3} \text{ cm}^2 \end{aligned}$$

67) Answer: B

$$\text{Speed of stream} = 24/2 = 12 \text{ kmph}$$

$$680/(x + 12) + 680/(x - 12) = 88$$

$$85(x - 12 + x + 12) = 11 * (x^2 - 12^2)$$

$$170x = 11x^2 - 1584$$

$$x = 22$$

$$\text{Required time} = 330/22 = 15 \text{ hours}$$

68) Answer: A

$$\text{David:Dhoni} = 125:100 = 5:4$$

$$\text{Dhoni's age after 15 years} = 4x + 15$$

$$\text{Sachin's age after 15 years} = \frac{15}{11} * (4x + 15)$$

$$5x + \frac{15}{11} (4x + 15) - 15 = 110$$

$$5x + 60x/11 + 225/11 - 15 = 110$$

$$x = 10$$

$$\text{Present age of Dhoni} = 10 * 4 = 40 \text{ years}$$

69) Answer: B

$$\text{CP of a pencil} = x$$

$$\text{CP of an eraser} = 15 - x$$

$$x * 115/100 = (15 - x) * 57.5/100$$

$$115x = 862.5 - 57.5x$$

$$x = 5$$

$$\text{CP of Eraser} = 15 - 5 = 10$$

70) Answer: B

$$\text{Required difference} = 350 - 250 = 100$$

71) Answer: D

$$\text{Required average} = (250 * 2 + 400 * 3)/2$$

$$= 850 \text{ lakh}$$

72) Answer: C

$$\text{Number of flats in G} = 125/100 * 300 + 20 = 395$$

73) Answer: B

$$\text{Required average} = (250 + 300 + 400 + 200 +$$

$$350)/5$$

$$= 300$$

74) Answer: E

$$\text{Required difference} = 1/5 * 200 = 40$$

75) Answer: A

$$\text{Required \%} = (250 + 350)/(300 + 400) * 100$$

$$= 85.71\%$$

76) Answer: A

$$\text{Required difference} = 180 * 140/100 - 160 * 130/100 = 44$$

77) Answer: B

$$\text{Required ratio} = (120 + 200):(120 + 240)$$

$$= 320:360$$

$$= 8:9$$

78) Answer: D

$$\text{Required \%} = (200 + 220)/(100 + 240 + 220) * 100$$

$$= 75\%$$

79) Answer: B

$$\text{Number of dancers in F} = (180 + 100 + 200)/3 = 160$$

$$= 160$$

$$\text{Number of painters in F} = 160 * 9/8 = 180$$

80) Answer: C

$$\text{Required average} = (100 + 120 + 240 + 180 + 220)/5$$

$$= 172$$

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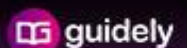
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