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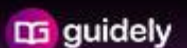
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Reasoning Ability

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

Seven persons- H, J, K, M, N, O, and P are going for an occasion one after another but not necessarily in the same order.

Only one person goes between M and N, who goes before M. Only three persons go between M and K. J goes two persons before K. O goes before H. P neither goes adjacent to K nor J. H goes after K.

1) How many persons go after K?

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

2) Four of the following five are alike in a certain way and hence form a group. Who among the following one doesn't belong to that group?

- a) JK
- b) OH
- c) JP
- d) NM
- e) KN

3) Who among the following person goes immediately before M?

- a) K
- b) O
- c) J
- d) P

e) N

4) If all the persons are arranged in alphabetical order from first, then how many persons are unchanged in their position?

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

5) How many persons go between J and P?

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

Directions (6-9): Study the following information carefully and answer the below questions

714 385 921 642 573

6) If "3" is added to the last digit of each number, then how many numbers are divisible by two?

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

7) What is the product of the second digit of the second-highest number and the third digit of the third lowest number?

- a) 2
- b) 3
- c) 7
- d) 4
- e) 5

8) If all the digits within the numbers are added, then how many numbers are divisible by three?

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

9) If all the digits within the numbers are arranged in ascending order, then which of the following number is the second-highest number?

- a) 642
- b) 573
- c) 921
- d) 385
- e) 714

10) How many pairs of digits are there in the number "4296735" each of which has as many digits between them in the number as there are in the number series? (Both forward and backward)

- a) Two
- b) Three
- c) One
- d) More than Fours
- e) Four

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

Seven movies-A, B, C, D, E, F, and G are telecasted on different days of the same week starting from Monday to Sunday, but not necessarily in the same order.

A is telecasted before Wednesday. Only three movies are telecasted between A and B. Only two movies are telecasted between B and D. E is telecasted before F. C is telecasted before G. The number of movies telecasted between A and E is the same as between F and C. F is telecasted before C but not immediately before.

11) Which of the following movie was telecasted on Thursday?

- a) Movie C
- b) Movie A
- c) Movie B
- d) Movie F
- e) Movie E

12) Four of the following are alike in a certain way. Which of the following does not belong to the group?

- a) AE
- b) CG
- c) DF
- d) FC
- e) BG

13) How many movies are telecasted before B?

- a) 4
- b) 5

c) 2

d) 3

e) No one

14) Which of the following movies telecast immediately before C?

a) B

b) A

c) D

d) F

e) G

15) On which of the following day does the movie D was telecasted?

a) Tuesday

b) Wednesday

c) Thursday

d) Friday

e) Saturday

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

a) O

b) N

c) R

d) S

e) M

17) Five persons- A, B, C, D, and E are sitting in the linear row facing north, but not necessarily in the same order. A sits at the end of the row. Only two persons sit between A and B. C sits to the immediate left of B. More than two persons

sit between A and C. Then who among the following person sits third from the left end?

a) D

b) E

c) B

d) Either b or c

e) Either a or b

18) Five boxes- P, Q, R, S, and T have different numbers of coins. Box Q has more coins than box R, but less than box S, which doesn't have the highest number of coins. Box R has more coins than only box T. Which of the following box has the second-highest number of coins?

a) Box T

b) Box R

c) Box Q

d) Box S

e) Box P

Directions (19-23): Study the following information carefully and answer the below questions

Seven persons- A, B, C, D, E, F, and G are living on a seven storey building such that the lowermost floor is numbered as one and the topmost floor is numbered as seven. All the information is not necessarily in the same order. Only four persons live between A and E, who lives above A. Only two persons live between G and E. The number of persons living above A is the same as the number of persons living below B. Only one person lives between F and C. F does not live on the adjacent floor of G.

19) How many persons live above D?

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

20) Who among the following person lives between E and C?

- I. B
 - II. D
 - III. A
 - IV. F
- a) Only I and III
 - b) Only III and IV
 - c) Only I and II
 - d) Only II and IV
 - e) None of these

21) If all the persons are arranged in alphabetical order from the seventh floor, then how many persons remain unchanged in their position?

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

22) Which of the following floor does A live?

- a) First
- b) Sixth
- c) Fifth
- d) Fourth

e) Second

23) Who among the following person lives on the fourth floor?

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

Directions (24-26): Study the following information carefully and answer the below questions

Point A is 19m to the east of Point B, which is 9m to the north of Point C. Point D is 8m to the east of Point C. Point E is 22m to the north of Point D. Point E is 11m to the west of Point F. Point G is 10m to the west of Point A.

24) What is the distance between B and G?

- a) 8m
- b) 9m
- c) 7m
- d) 11m
- e) None of the above

25) Four of the following five are alike in a certain way and hence form a group. Which of the following one does not belong to that group?

- a) FG
- b) EB
- c) AD
- d) GC
- e) BD

26) What is the direction of point G with respect to point E?

- a) South
- b) North-west
- c) North-east
- d) South-east
- e) South-west

Direction (27-30): Study the following information carefully and answer the below questions.

In a certain code language

'Global Warming Climate Change' means 'ig ph vm at'

'Climate Weather Emissions

Mitigation' means 'ph vs ys pr',

'Change Greenhouse Gas Weather' means 'ig le zx vs',

'Warming Greenhouse Fossil fuel' means 'vm le im hl'

27) What is the code for the word 'Greenhouse' in the given code language?

- a) le
- b) zx
- c) vs
- d) ig
- e) None of the above

28) What is the code for the phrase 'Warming Gas' in the given code language?

- a) ig vm
- b) zx ys
- c) ys pr
- d) vm zx

e) im vs

29) What does the code 'im' represent in the given code language?

- a) Fossil
- b) Fuel
- c) Warming
- d) Either a or c
- e) Either a or b

30) If 'Emission Global' is coded as 'ys at', then what does the code 'zx ig pr' represent in the given code language?

- a) Warming Weather Gas
- b) Fossil Change Mitigation
- c) Change Climate Global
- d) Mitigation Change gas
- e) Can't be determined

Directions (31-32): Study the following information carefully and answer the questions given below

Seven members are living in a family of three generations. N is the daughter-in-law of S. V is the sister-in-law of U. S is the wife of C. N is the sister-in-law of Y. C has two children and E is the grandson of C. U is married and uncle of E.

31. How Y is related to E?

- a) Brother
- b) Aunt
- c) Wife
- d) None of these
- e) Father

32. Who is the daughter-in-law of S?

- a) C
- b) V
- c) U
- d) E
- e) None of these

33. Four of the following five are alike in a certain way and hence form a group. who among the following one does not belong to the group?

- a) Y
- b) U
- c) E
- d) S
- e) C

Directions (34-36): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Give Answer:

- a) If Only conclusion I follow.
- 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.

34) Statement

Only a few Dunzo are Swiggy

All Swiggy are Zomato

No Zomato is Box 8

Conclusion

- I. Some Dunzo are not Box 8
- II. Some Zomato can be Swiggy

35) Statement

Only a few Sowoos are big basket

Some Big basket are Food panda

All Food panda are Glovo

Conclusion

- I. No Sowoos is Food panda
- II. All Big basket can be Glovo

36) Statement

Only a few Flea are Grub

All Grub are Tick

No Tick is Wasp

Conclusion

- I. All Flea can never be Wasp
- II. Some Grub can be Wasp

Directions (37-40): Study the following information carefully and answer the below questions

Certain number of persons are sitting in the linear row facing north. M sits fifth from the left end. Only three persons sit between M and S. Q sits third to the right of S. G sits second to the right of P who sits to the immediate right of M. The number of persons sitting between G and S is the same as the number of persons sitting between Q and T. T sits to the right of Q. R sits third to the right of T. L sits to the immediate right of R and third from the right end. N sits at the end of the row but not to the right of L.

37) How many persons are sitting in the row?

- a) 18
- b) 16

- c) 17
- d) 19
- e) 20

38) Four of the following five are alike in a certain way and hence form a group. Who among the following one does not belong to that group?

- a) MP
- b) GS
- c) NM
- d) QT
- e) RL

39) Who among the following person sits sixth to the left of Q?

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

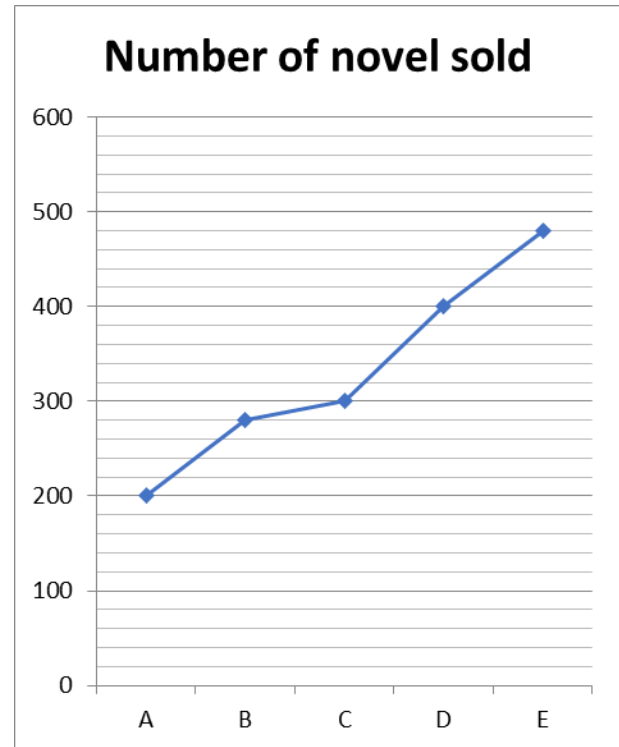
40) If N is related to M and S is related to T in a certain pattern, then who among the following person is related to Q?

- a) P
- b) G
- c) S
- d) M
- e) N

Quantitative Aptitude

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

The given line graph shows the number of novels sold by five different persons – A, B, C, D and E.



41) The number of novels sold by C is 40% of the total number of novels. Find the number of unsold novels by C.

- A. 420
- B. 450
- C. 480
- D. 500
- E. 440

42) Ratio of the number of sold and unsold novels by E and A is 8:3 and 5:2 respectively. What is the difference between the number of unsold novels by E and A?

- A. 90
- B. 80
- C. 100
- D. 110
- E. 120

43) The number of novels sold by F is 25% more than that of D. Find the number of novels sold by F.

- A. 450
- B. 400
- C. 500
- D. 550
- E. 600

44) The number of novels sold by B is approximately what percent of the total number of novels sold by A and D together?

- A. 44%
- B. 47%
- C. 49%
- D. 41%
- E. 39%

45) Find the average number of novels sold by E, A and D?

- A. 320
- B. 330
- C. 340
- D. 350
- E. 360

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

The given table shows the number of mail sent by five different persons in a month.

Persons	Number of mail
A	120
B	400
C	300
D	320
E	240

46) What is the ratio of the number of mail sent by D and A?

- A. 5:2
- B. 16:7
- C. 8:3
- D. 6:5
- E. 7:3

47) Find the average number of mail sent by E and B?

- A. 300
- B. 320
- C. 290
- D. 280
- E. 310

48) The number of mail sent by A is what percent of the number of mail sent by C?

- A. 30%
- B. 35%
- C. 50%
- D. 40%
- E. 45%

49) The number of mail sent by F is equal to the average number of mail sent by B and E. What is the difference between the number of mail sent by F and D?

- A. 20
- B. 30
- C. 10
- D. 40
- E. None of these

50) What is the sum of the number of mail sent by A, C and B?

- A. 810
- B. 820
- C. 840
- D. 850
- E. 800

51) One year ago, the ratio of age of Rani and Yamuna was 2 : 3. 5 years hence, their ratio will be 8 : 11. Find the present age of Rani.

- A. 15 years
- B. 17 years
- C. 23 years
- D. 19 years
- E. None of these

52) Train A of length 180 m crosses another train B travelling in the opposite direction in 15 seconds. Train A crosses a pole in 20 sec and the length of train A is half of the length of train B then find the speed of train B.

- A. 27 m/sec

- B. 33 m/sec
- C. 39 m/sec
- D. 21 m/sec
- E. None of these

53) The time taken by the boat to travel 60km upstream is twice the time taken by the boat travel 150 km downstream. If the speed of the stream is 20 kmph, then what is the speed of the boat in still water?

- A. 30 kmph
- B. 40 kmph
- C. 50 kmph
- D. 60 kmph
- E. None of these

54) Sam invests Rs.20000 in scheme A which offers compound interest at 12% per annum for 2 years, find the interest amount received by Sam after 2 years.

- A. Rs.4890
- B. Rs.5088
- C. Rs.4284
- D. Rs.5824
- E. None of these

55) A can do the piece of work in 20 days and A and C together can complete the work in 15 days. If A, B and C together can complete the work in 10 days and they get their total wages of Rs.6600, then what is the wage of C?

- A. Rs.1100
- B. Rs.2200
- C. Rs.3300

- D.Rs.4400
E.None of these

56) The area of a square is 196 sq.cm, whose side is double the radius of a circle. The circumference of the circle is equal to the breadth of a rectangle. If the perimeter of the rectangle is 164 cm, what is the length of the rectangle?

- A.27 cm
B.38 cm
C.44 cm
D.41 cm
E.32 cm

57) If the marked price of the headset is 120% of the cost price and the shopkeeper allows the discount of 15%, So the shopkeeper gets the profit of Rs.800.

What is the cost price of the headset?

- A.Rs.30000
B.Rs.20000
C.Rs.40000
D.Rs.50000
E.Rs.60000

58) Average weight of boys in the class is 54 kg and the average weight of the girls in the class is 12 kg less than the average weight of the boys. If the number of boys in the class is 6 less than the number of girls and the average weight of the class is 45 kg, then find the number of students in the class.

- A. 12
B. 14

- C. 16
D. 8
E. 10

59) A beaker contains a mixture of diesel and petrol in the ratio of 4:5. If 18 liters of mixture is taken out and replaced with 2 liters of diesel then the ratio of the diesel to petrol becomes 5:6 and again 22 liters of mixture is taken out and replaced with 8 liters of petrol, then find the ratio of the diesel to petrol in the final mixture.

- A. 5:7
B. 5:6
C. 5:8
D. 5:9
E. 4:5

60) Pipe A alone fills the tank in 5 hours and outlet pipe B alone empties the tank in x hours. If pipes A and B opened simultaneously, then the tank filled completely in 6 hours. Find the value of x.

- A. 20 hours
B. 40 hours
C. 50 hours
D. 30 hours
E. 60 hours

Directions (61-75): What value should come in place of question mark (?) in the following questions.

61) $\sqrt{1444} + ? = 2 \frac{2}{4}$ of 72

- A.153
B.142

- C.155
- D.146
- E.124

62) $(23)^2 + (20)^2 - (15)^2 = ?$

- A.718
- B.725
- C.704
- D.715
- E.696

63) $(?)^2 + 6^3 = 18^2 - 8$

- A.22
- B.18
- C.10
- D.14
- E.30

64) $15 * 16 + \sqrt{441} * 18 - 180 \% \text{ of } 220 = ?$

- A.199
- B.210
- C.222
- D.231
- E.243

65) $(29^2 + 111 * 9) \div \sqrt{529} + ? = 110 \% \text{ of } 210$

- A.151
- B.143
- C.148
- D.128
- E.138

66) $60 \% \text{ of } 340 + 88 \% \text{ of } 1200 - 28 \% \text{ of } 800 = ?$

- A.1036

- B.1048
- C.1098
- D.1078
- E.1065

67) $(0.5)^{43} * (0.125)^8 \div (0.5)^{25} = (0.5)^{2 * ?}$

- A.21
- B.24
- C.26
- D.28
- E.30

68) $35 \% \text{ of } 240 + 85 \% \text{ of } 320 - ? = 120$

- A.236
- B.243
- C.248
- D.252
- E.230

69) $55 \% \text{ of } 220 + 15 * 35 - \sqrt{841} * 8 = ?$

- A.441
- B.391
- C.461
- D.414
- E.481

70) $594 \div (22 \% \text{ of } 150) + ? = \sqrt{2209}$

- A.27
- B.32
- C.25
- D.20
- E.29

71) $384 \div 4 + 308 \div 44 + 120 \% \text{ of } 280 = ?$

- A. 439
- B. 432
- C. 423
- D. 449
- E. 409

72) $16\% \text{ of } 450 * ?\% \text{ of } 880 = 6336$

- A. 6
- B. 15
- C. 10
- D. 8
- E. 5

73) $75\% \text{ of } 36 + 45\% \text{ of } 140 + 40\% \text{ of } 160 = ?$

- A. 121
- B. 154
- C. 123
- D. 164
- E. 170

74) $150 + 1120 = 16 \times 456 \div 3 + ? - 5100$

- A. 3938
- B. 3524
- C. 4156
- D. 4372
- E. None of these

75) $\sqrt{529} * 4 + 45\% \text{ of } 160 - 19 * 5 = ?$

- A. 69
- B. 37
- C. 56
- D. 72
- E. 62

Directions (76-80): Find out the wrong number in the following number series.

76) 19, 20, 29, 54, 103, 185

- A. 20
- B. 29
- C. 54
- D. 103
- E. 185

77) 11, 22, 55, 264, 1320, 7920

- A. 22
- B. 55
- C. 264
- D. 1320
- E. 7920

78) 23, 47, 95, 191, 383, 787

- A. 383
- B. 191
- C. 47
- D. 787
- E. 95

79) 51, 54, 63, 90, 171, 409

- A. 54
- B. 409
- C. 63
- D. 90
- E. 171

80) 13, 49, 74, 90, 98, 103

- A. 49
- B. 90
- C. 74

D.98
E.103

Answer With Explanation

Directions (1-5):

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

Final Arrangement

	Person
1	J
2	O
3	K
4	H
5	N
6	P
7	M

We have,

- Only one person goes between M and N.
- N goes before M.
- Only three persons go between M and K.
- J goes two persons before K.

From the above condition, there are two possibilities.

	Case1	Case2
1	J	N
2		
3	K	M
4		
5	N	J
6		
7	M	K

Again we have,

- O goes before H.
- P neither goes adjacent to K nor J.
- H goes after K.

From the above condition, case 2 gets eliminated. Case 1 shows the final arrangement.

	Case1	Case2
1	J	N
2	O	P
3	K	M
4	H	O
5	N	J
6	P	H
7	M	K

6) Answer: D

Given series

714 385 921 642 573

“3” added to the last digit

717 388 924 645 576

7) Answer: A

Given series

714 385 921 642 573

$1*2=2$

8) Answer: B

Given series

714 385 921 642 573

12 16 12 12 15

9) Answer: B

Given series

714 385 921 642 573

Arranged in ascending order

147 358 129 246 **357**

10) Answer: E

4 2 9 6 7 3 5

Directions (11-15):

11) Answer: D

12) Answer: B

13) Answer: A

14) Answer: A

15) Answer: A

Final Arrangement

Days	Movie
Monday	A
Tuesday	D
Wednesday	E
Thursday	F
Friday	B
Saturday	C
Sunday	G

We have,

- A is telecasted before Wednesday.
- Only three movies are telecasted between A and B.

From the above condition, there are two possibilities.

	Case1	Case2
Monday		A
Tuesday	A	
Wednesday		
Thursday		
Friday		B
Saturday	B	
Sunday		

Again we have,

- Only two movies are telecasted between B and D.
- E is telecasted before F.
- C is telecasted before G.
- The number of movies telecasted between A and E is the same as between F and C.
- F is telecasted before C but not immediately before.

From the above condition, Case 1 gets eliminated. Case 2 shows the final arrangement.

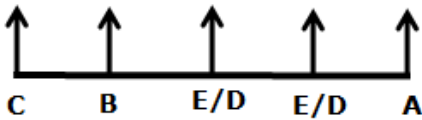
	Case1	Case2
Monday	E	A
Tuesday	A	D
Wednesday	D	E
Thursday	F	F
Friday	C	B
Saturday	B	C
Sunday	G	G

16) Answer: B

INFORMS

FIMNORS

17) Answer: E



18) Answer: D

$P > S > Q > R > T$

Directions (19-23):

19) Answer: B

20) Answer: C

21) Answer: C

22) Answer: E

23) Answer: C

Final Arrangement

Floor	Person
7	E
6	B
5	D
4	G
3	C
2	A
1	F

We have,

- Only four persons live between A and E, who lives above A.
- Only two persons live between G and E.

From the above condition, there are two possibilities.

	Case1	Case2
7	E	
6		E
5		
4	G	
3		G
2	A	
1		A

Again we have,

- The number of persons living above A is the same as the number of persons living below B.
- Only one person lives between F and C.
- F does not live in the adjacent floor of G.

From the above condition, case 2 gets eliminated. Case 1 shows the final Arrangement.

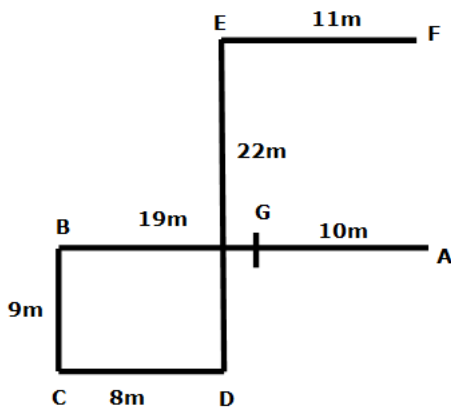
	Case1	Case2
7	E	B
6	B	E
5	D	
4	G	
3	C	G
2	A	
1	F	A

Directions (24-26):

24) Answer: B

25) Answer: E

26) Answer: D



Directions (27-30):

27) Answer: A

28) Answer: D

29) Answer: E

30) Answer: D

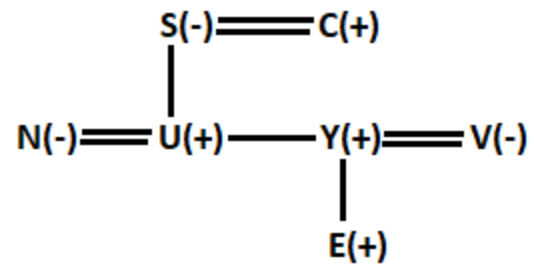
Global	At
Warming	Vm
Climate	Ph
Change	Ig
Weather	Vs
Emission/Mitigation	Ys/pr
Greenhouse	Le
Gas	Zx
Fossil/Fuel	Im/hl

Directions (31-32):

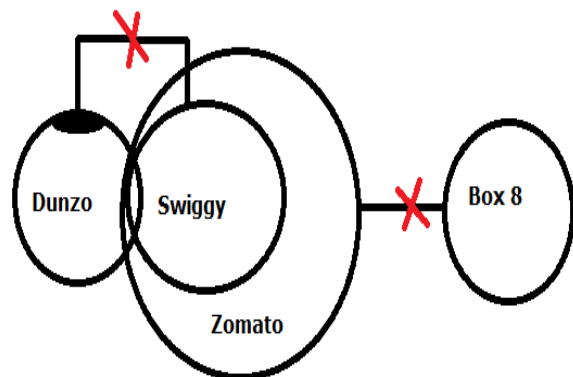
31) Answer: E

32) Answer: B

33) Answer: D

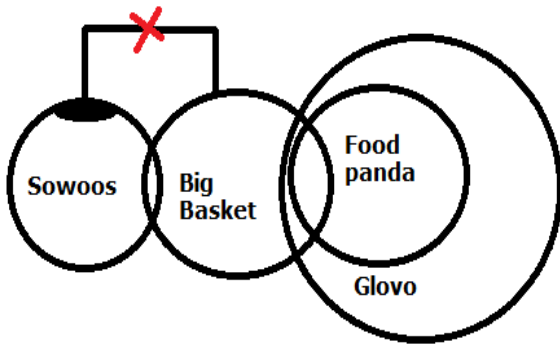


34) Answer: A



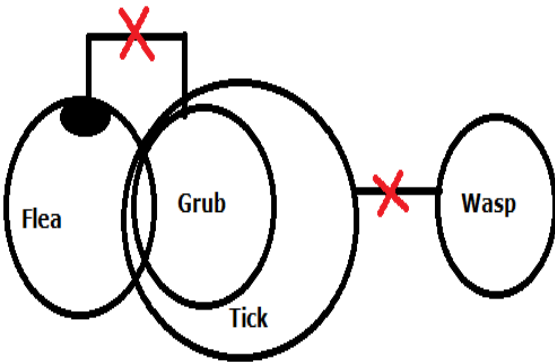
Only conclusion I follow.

35) Answer: B



Only conclusion II follows

36) Answer: A



Only conclusion I follow.

Directions (37-40):

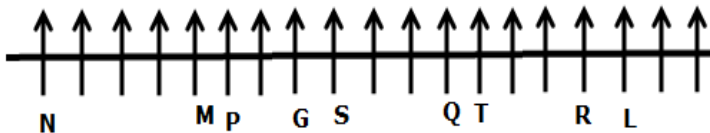
37) Answer: D

38) Answer: C

39) Answer: C

40) Answer: B

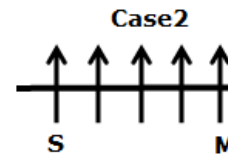
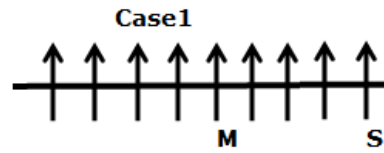
Final Arrangement



We have,

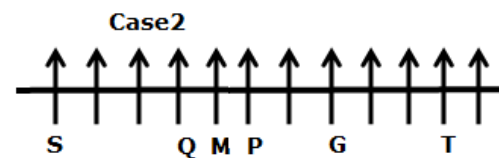
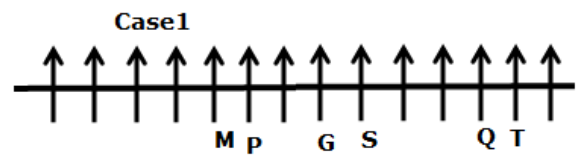
- M sits fifth from the left end.
- Only three persons sit between M and S.

From the above condition, there are two possibilities.



Again we have,

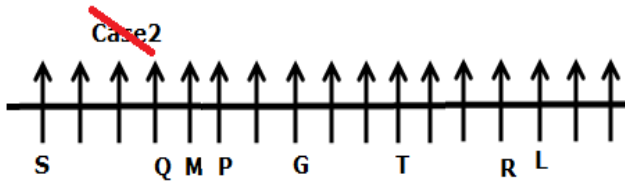
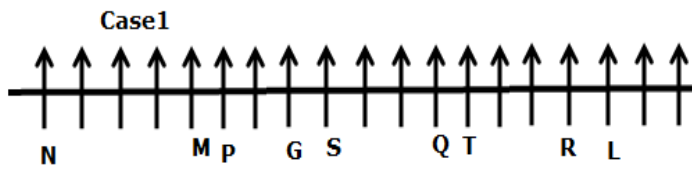
- Q sits third to the right of S.
- G sits second to the right of P who sits to the immediate right of M.
- The number of persons sitting between G and S is the same as the number of persons sitting between Q and T.
- T sits to the right of Q.



Again we have,

- R sits third to the right of T.
- L sits to the immediate right of R and third from the right end.
- N sits at the end of the row but not to the right of L.

From the above condition, case 2 gets eliminated. Case 1 shows the final arrangement.



41) Answer: B

$$\text{Required total} = 60/40 * 300 = 450$$

42) Answer: C

$$\begin{aligned} \text{Required difference} &= 3/8 * 480 - 2/5 * 200 \\ &= 100 \end{aligned}$$

43) Answer: C

$$\text{Required total} = 125/100 * 400 = 500$$

44) Answer: B

$$\begin{aligned} \text{Required \%} &= 280/(200 + 400) * 100 \\ &= 46.67\% \end{aligned}$$

45) Answer: E

$$\begin{aligned} \text{Required average} &= (480 + 400 + 200)/3 \\ &= 360 \end{aligned}$$

46) Answer: C

$$\begin{aligned} \text{Required ratio} &= 320:120 \\ &= 8:3 \end{aligned}$$

47) Answer: B

$$\begin{aligned} \text{Required average} &= (240 + 400)/2 \\ &= 320 \end{aligned}$$

48) Answer: D

$$\begin{aligned} \text{Required \%} &= 120/300 * 100 \\ &= 40\% \end{aligned}$$

49) Answer: E

$$\text{Required difference} = 320 - (240 + 400)/2 = 0$$

50) Answer: B

$$\text{Required total} = 120 + 300 + 400 = 820$$

51) Answer: D

One year ago, the ratio of age of Rani and Yamuna = 2: 3(2x, 3x)

5 years hence, their ratio will be = 8: 11

According to the question,

$$(2x + 6)/(3x + 6) = (8/11)$$

$$22x + 66 = 24x + 48$$

$$2x = 18$$

$$x = 9$$

The present age of Rani = 2x + 1 = 19 years

52) Answer: A

Let the speed of train B be x,

Length of Train A = 180 m

Length of Train B = 360 m

$$T = D/S$$

$$\{(180 + 360) / [(180/20) + x]\} = 15$$

$$540/(9 + x) = 15$$

$$36 = 9 + x$$

$$x = 36 - 9 = 27 \text{ m/sec}$$

53) Answer: A

Speed of the boat in still water = x

$$60/(x - 20) = 2 * (150 / (x + 20))$$

$$60 / (x - 20) = 2 * (150 / (x + 20))$$

$$30 * (x + 20) = 150 * (x - 20)$$

$$x + 20 = 5x - 100$$

$$4x = 120$$

$$x = 30 \text{ kmph}$$

54) Answer: B

$$CI = P * (1 + R/100)^2 - P$$

$$CI = 20000 * (1 + 12/100)^2 - 20000$$

$$= \text{Rs.}5088$$

55) Answer: A

Work done by A in one day,

$$A = 1/20$$

Work done by A and C in one day,

$$A + C = 1/15$$

Work done by C in one day,

$$C = 1/15 - 1/20$$

$$C = 1/60$$

Work done by A, B and C in one day,

$$A + B + C = 1/10$$

$$1/20 + 1/60 + B = 1/10$$

$$B = 1/10 - 1/20 - 1/60$$

Work done by B in one day,

$$B = 1/30$$

Ratio of work done by A, B and C = 1/20 : 1/30 :

$$1/60$$

$$= 3: 2: 1$$

$$C's \text{ wage} = 1/6 * 6600 = \text{Rs.}1100$$

56) Answer: B

$$\text{Area of the square} = a^2 = 196 \text{ cm}^2$$

$$\text{Side of square} = 14 \text{ cm}$$

$$\text{Radius of the circle} = 14/2 = 7 \text{ cm}$$

Breadth of the rectangle = circumference of the circle ($2\pi r$) = $2 * 22/7 * 7$

$$= 44 \text{ cm}$$

$$\text{Perimeter of the rectangle} = 2(l + b) = 164$$

$$\text{Length of the rectangle} = 164/2 - 44 = 38 \text{ cm.}$$

57) Answer: C

$$CP = 100x$$

$$MP = 100x * 120/100 = 120x$$

$$SP = 120x * 85/100 = 102x$$

$$\text{Profit} = SP - CP$$

$$2x = 800$$

$$x = 400$$

$$CP = 400 * 100 = \text{Rs.}40000$$

58) Answer: A

Average weight of girls = $54 - 12 = 42 \text{ kg}$

54	42
-----------	-----------

	45
--	-----------

3	9
----------	----------

$$= 1:3$$

Total number of students in the class = $4/2 * 6 = 12$

59) Answer: A

$$\text{Diesel in 18 liters} = 4/9 * 18 = 8 \text{ liters}$$

$$\text{Petrol in 18 liters} = 5/9 * 18 = 10 \text{ liters}$$

$$4x - 8 + 2/5x - 10 = 5/6$$

$$25x - 50 = 24x - 48 + 12$$

$$x = 14$$

$$\text{Diesel} = 14 * 4 - 8 + 2 = 50$$

$$\text{Petrol} = 5 * 14 - 10 = 60$$

Diesel in 22 liters = $5/11 * 22 = 10$ liters

Petrol in 22 liters = $6/11 * 22 = 12$ liters

Required ratio = 50 – 10:60 – 12 + 8

= 40:56

= 5:7

60) Answer: D

$$1/5 - 1/x = 1/6$$

$$1/x = 1/5 - 1/6$$

$$1/x = 1/30$$

61) Answer: B

$$? = 72 * (10/4) - \sqrt{1444}$$

$$? = 18 * 10 - 38$$

$$? = 180 - 38 = 142$$

62) Answer: C

$$? = 23^2 + 20^2 - 15^2$$

$$? = 529 + 400 - 225$$

$$? = 704$$

63) Answer: C

$$(?)^2 = 18^2 - 8 - 6^3$$

$$? = 324 - 8 - 216 = 100$$

So,

$$? = 10$$

64) Answer: C

$$15 * 16 + \sqrt{441} * 18 - 180 \% \text{ of } 220 = ?$$

$$240 + 378 - 396 = ?$$

$$222 = ?$$

65) Answer: A

$$(29^2 + 111 * 9) \div \sqrt{529} + ? = 110 \% \text{ of } 210$$

$$1840/23 + ? = 231$$

$$? = 151$$

66) Answer: A

$$60\% \text{ of } 340 + 88\% \text{ of } 1200 - 28 \% \text{ of } 800 = ?$$

$$204 + 1056 - 224 = ?$$

$$1036 = ?$$

67) Answer: A

$$(0.5)^{43} * (0.125)^8 \div (0.5)^{25} = (0.5)^{2 * ?}$$

$$(0.5)^{43} * (0.5)^{24} \div (0.5)^{25} = (0.5)^{2 * ?}$$

$$(0.5)^{43 + 24 - 25} = (0.5)^{2 * ?}$$

$$42 = ? * 2$$

$$? = 21$$

68) Answer: A

$$35\% \text{ of } 240 + 85\% \text{ of } 320 - ? = 120$$

$$84 + 272 - ? = 120$$

$$236 = ?$$

69) Answer: D

$$55\% \text{ of } 220 + 15 * 35 - \sqrt{841} * 8 = ?$$

$$121 + 525 - 232 = ?$$

$$? = 414$$

70) Answer: E

$$594 \div (22\% \text{ of } 150) + ? = \sqrt{2209}$$

$$18 + ? = 47$$

$$? = 29$$

71) Answer: A

$$384 \div 4 + 308 \div 44 + 120 \% \text{ of } 280 = ?$$

$$96 + 7 + 336 = ?$$

$$439 = ?$$

72) Answer: C

$$0.16 * 450 * ? * 880/100 = 6336$$

$$633.6 * ? = 6336$$

$$? = 10$$

73) Answer: B

$$75 \% \text{ of } 36 + 45 \% \text{ of } 140 + 40 \% \text{ of } 160 = ?$$

$$27 + 63 + 64 = ?$$

$$154 = ?$$

74) Answer: A

$$150 + 1120 = (16 * 456) / 3 + x - 5100$$

$$150 + 1120 - 2432 + 5100 = x$$

$$x = 3938$$

75) Answer: A

$$\sqrt{529} * 4 + 45 \% \text{ of } 160 - 19 * 5 = ?$$

$$92 + 72 - 95 = ?$$

$$69 = ?$$

76) Answer: E

$$19 + 1^2 = 20$$

$$20 + 3^2 = 29$$

$$29 + 5^2 = 54$$

$$54 + 7^2 = 103$$

$$103 + 9^2 = 184$$

77) Answer: B

$$11 * 2 = 22$$

$$22 * 3 = 66$$

$$66 * 4 = 264$$

$$264 * 5 = 1320$$

$$1320 * 6 = 7920$$

78) Answer: D

$$23 * 2 + 1 = 47$$

$$47 * 2 + 1 = 95$$

$$95 * 2 + 1 = 191$$

$$191 * 2 + 1 = 383$$

$$383 * 2 + 1 = 767$$

79) Answer: B

$$51 + 3^1 = 54$$

$$54 + 3^2 = 63$$

$$63 + 3^3 = 90$$

$$90 + 3^4 = 171$$

$$171 + 3^5 = 414$$

80) Answer: D

$$13 + 6^2 = 49$$

$$49 + 5^2 = 74$$

$$74 + 4^2 = 90$$

$$90 + 3^2 = 99$$

$$99 + 2^2 = 103$$

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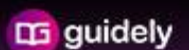
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