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### Reasoning Ability

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

Eight persons viz. G, H, I, J, K, L, M and N are sitting on a square table such that some of them are facing inside while some are facing outside the table, but not necessarily in the same order. Not more than two adjacent persons face the same direction. Four persons are seated on the four corners while four persons are seated on the middle of the sides.

J sits third to the right of I who sits to the immediate right of G where both G and I face the same direction. I sits at the corner. H sits second to the left of G. The immediate neighbors of H face the same direction. M sits second to the right of N and vice versa where N is not the immediate neighbor of H. L sits second to the right of J and third to the left of K but doesn't face outside the table.

**1) Who among the following person sits second to the left of M?**

- A. L
- B. I
- C. K
- D. J
- E. None of these

**2) What is the position of K with respect to H?**

- A. Immediate right
- B. Immediate left
- C. Second to the right
- D. Second to the left
- E. None of these

**3) Who among the following person sits third to the right of N?**

- A. The one who sits to the immediate right of J
- B. The one who sits second to the left of G
- C. The one who sits third to the right of I
- D. The one who sits to the immediate left of K
- E. None of these

**4) If all the persons are made to sit in alphabetical order in a clockwise direction starting from G, then how many persons remain unchanged in their position (excluding G)?**

- A. One
- B. Two
- C. Three
- D. More than three
- E. None

**5) Which of the following statement is/are true with respect to the final arrangement?**

- A. H sits second to the left of M
- B. More than three persons sit from the right of I to N
- C. Both L and H face the same direction
- D. N sits opposite to K
- E. None of these

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

Seven persons viz. A, B, C, D, E, F and G are going for tuition on different subjects viz. Botany, Chemistry, English, Maths, Physics, Tamil and

Zoology, but not necessarily in the same order. Each person goes to the tuition on different days of the same week from Monday to Sunday.

Maths was taught on one of the days after Thursday and three days after D goes to the tuition. English was taught on the day immediately before D goes to the tuition. Only two days are there between A and the day on which English was taught. Chemistry was taught on the day immediately before A and two days after F. E goes to the tuition on the last day whereas B goes to the tuition on the first day of the week. Zoology was taught two days after B. Neither A nor B goes for Physics tuition whereas G goes to tuition immediately after the day on which Tamil was taught.

**6) Which of the following subject was taught on Monday?**

- A. The one which taught two days before Tamil
- B. Physics
- C. Tamil
- D. The one which taught immediately before English
- E. None of these

**7) As many persons go to the tuition before F as after \_\_\_\_.**

- A. The one who goes to Tamil tuition
- B. The one goes on Saturday
- C. The one who goes to Physics tuition
- D. The one goes on Friday
- E. None of these

**8) How many persons go to tuition between C and the one who goes to Zoology tuition?**

- A. One
- B. Two
- C. Three
- D. More than three
- E. None

**9) If English is related to A and Botany is related to C in a certain way, then which of the following subject is related to G?**

- A. Zoology
- B. Chemistry
- C. Tamil
- D. Physics
- E. None of these

**10) Which of the following statement is/are true with respect to the given arrangement?**

- A. The one who goes to Tamil tuition goes on Thursday
- B. G goes to Chemistry tuition three days before E
- C. The one who goes to Zoology tuition goes two days after B
- D. The one who goes to English tuition goes on Sunday.
- E. None of these

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

The Motorola Company launched different mobile models namely, Atrix, Defy, Droid, E4

Plus, G8, Nexus, Razr and Turbo, in different years starting from 2013 to 2020, but not necessarily in the same order.

Defy was launched in an even-numbered year and three years before Nexus was launched.

Only one model was launched between Nexus and E4 Plus. The number of models launched before E4 Plus is one more than the number of models launched after Razr which was launched immediately before Droid. Atrix was launched in a leap year and two years after G8 was launched.

**11) Which of the following mobile model was launched at first?**

- A. The one which launched five years before Nexus
- B. The one which launched immediately before Defy
- C. The one which launched three years before Razr
- D. The one which launched two years before G8
- E. None of these

**12) How many mobile models were launched between Razr and Atrix?**

- A. One
- B. Two
- C. Three
- D. More than three
- E. None

**13) The number of mobile models launched after Nexus is two more than the number of mobile models launched before \_\_\_\_.**

- A. The one which launched in 2016
- B. The one which launched in 2018
- C. The one which launched in 2014
- D. The one which launched in 2015
- E. None of these

**14) Four of the following five are alike in a certain way and hence form a group. Find the one that doesn't belong to that group.**

- A. G8
- B. Nexus
- C. Turbo
- D. Defy
- E. Droid

**15) Which of the following statement is/are true with respect to the final arrangement?**

- A. More than three mobile models were launched after Droid
- B. Razr was launched two years before G8
- C. E4 Plus was launched two years after Defy
- D. No mobile models were launched after Nexus
- E. None of these

**Directions (16-20): Study the following information carefully and answer the questions given below.**

Mano walks 11m towards the north and turns to his right to walk 6m and then turns to his right again. He then walks 20m to reach point T from where he turns to his right again and walks 17m. Then he walks 12m after taking a right turn. Finally, he turns to his right and walks 8m to reach point R.

Yuva starts walking 7m straight and takes a left turn to walk for 13m and then takes a left turn again to walk for 10m to reach point Y. From point Y, he takes a right turn and walks for 7m and then takes a right turn again and walks 21m straight. Finally, he turns to his right and walks 14m south to reach point R.

16) In which direction is the starting point of Yuva with respect to the starting point of Mano?

- A. East
- B. West
- C. Southwest
- D. Northeast
- E. None of these

17) What is the shortest distance between the points R and T?

- A. 16m
- B. 14m
- C. 13m
- D. 15m
- E. None of these

18) Towards which direction does Yuva start his journey initially?

- A. North
- B. East
- C. West
- D. South
- E. Cannot be determined

19) What is the difference between the total distances covered by Mano and Yuva?

- A. 1m
- B. 3m
- C. 2m
- D. 4m
- E. None of these

20) If they are standing at the final point in the evening, then in which direction is Yuva's shadow falls with respect to Mano?

- A. Front
- B. Right
- C. Behind
- D. Left
- E. Cannot be determined

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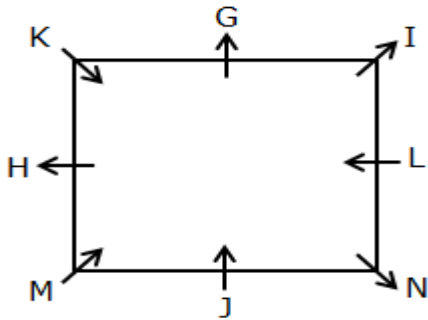
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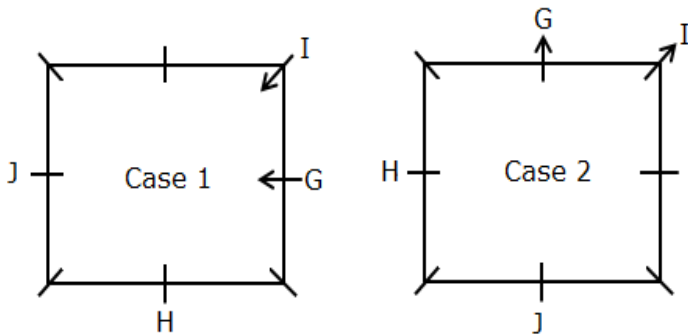
**Answer Key with Explanation**

**Directions (1-5):**

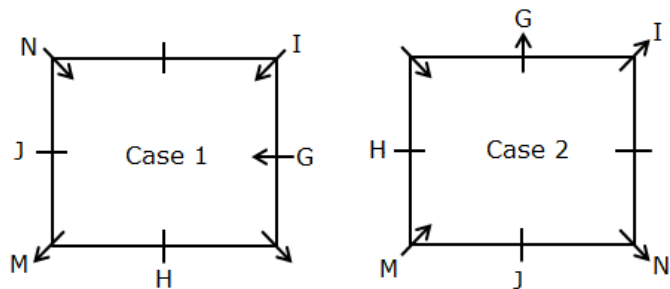
- 1) Answer: C
- 2) Answer: A
- 3) Answer: B
- 4) Answer: E
- 5) Answer: D



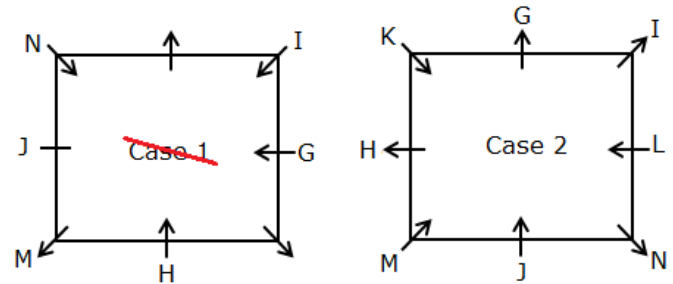
1. J sits third to the right of I who sits to the immediate right of G where both G and I face the same direction. H sits second to the left of G. I sits at the corner.



2. The immediate neighbors of H face the same direction. M sits second to the right of N and vice versa where N is not the immediate neighbor of H.



3. L sits second to the right of J and third to the left of K but doesn't face outside the table. Hence, case 1 gets eliminated.



**Directions (6-10):**

- 6) Answer: D
- 7) Answer: B
- 8) Answer: E
- 9) Answer: A
- 10) Answer: C

Days	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Person	B	F	D	C	A	G	E
Subject	Botany	English	Zoology	Chemistry	Tamil	Maths	Physics

1. Maths was taught on one of the days after Thursday and three days after D goes to the tuition. English was taught on the day immediately before D goes to the tuition.

	Days	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Case 1	Person		D					
	Subject	English				Maths		
Case 2	Person			D				
	Subject		English				Maths	
Case 3	Person				D			
	Subject			English				Maths

2. Only two days are there between A and the day on which English was taught. Chemistry was taught on the day immediately before A and two days after F.

	Days	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Case 1	Person	F	D		A			
	Subject	English		Chemistry		Maths		
Case 2	Person		F	D		A		
	Subject		English		Chemistry		Maths	
Case 3	Person			F	D		A	
	Subject			English		Chemistry		Maths

3. E goes to the tuition on the last day whereas B goes to the tuition on the first day of the week. Zoology was taught two days after B. Hence, cases 1 and 3 get eliminated.

	Days	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Case 1	Person	F	D		A			E
	Subject	English		Chemistry		Maths		
Case 2	Person	B	F	D		A		E
	Subject		English	Zoology	Chemistry		Maths	
Case 3	Person	B		F	D		A	E
	Subject			English		Chemistry		Maths

4. Neither A nor B goes for Physics tuition whereas G goes to tuition immediately after the day on which Tamil was taught.

	Days	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Case 2	Person	B	F	D	C	A	G	E
	Subject	Botany	English	Zoology	Chemistry	Tamil	Maths	Physics

Directions (11-15):

- 11) Answer: B
- 12) Answer: D
- 13) Answer: C
- 14) Answer: E
- 15) Answer: A

Year	Models
2013	Turbo
2014	Defy
2015	Razr
2016	Droid
2017	Nexus
2018	G8
2019	E4 Plus
2020	Atrix

- Defy was launched in an even-numbered year and three years before Nexus was launched. Only one model was launched between Nexus and E4 Plus.

	Case 1	Case 1a	Case 2
Year	Models	Models	Models
2013			
2014	Defy	Defy	
2015	E4 Plus		
2016			Defy
2017	Nexus	Nexus	E4 Plus
2018			
2019		E4 Plus	Nexus
2020			

- The number of models launched before E4 Plus is one more than the number of models launched after Razr which was launched immediately before Droid. Hence, case 2 gets eliminated.

	Case 1	Case 1a	<del>Case 2</del>
Year	Models	Models	Models
2013			
2014	Defy	Defy	
2015	E4 Plus	Razr	
2016		Droid	Defy
2017	Nexus	Nexus	E4 Plus
2018			
2019	Razr	E4 Plus	Nexus
2020	Droid		

3. Atrix was launched in a leap year and two years after G8 was launched. Hence, case 1 gets eliminated.

	<del>Case 1</del>	Case 1a
Year	Models	Models
2013		Turbo
2014	Defy	Defy
2015	E4 Plus	Razr
2016	Atrix	Droid
2017	Nexus	Nexus
2018		G8
2019	Razr	E4 Plus
2020	Droid	Atrix

Directions (16-20):

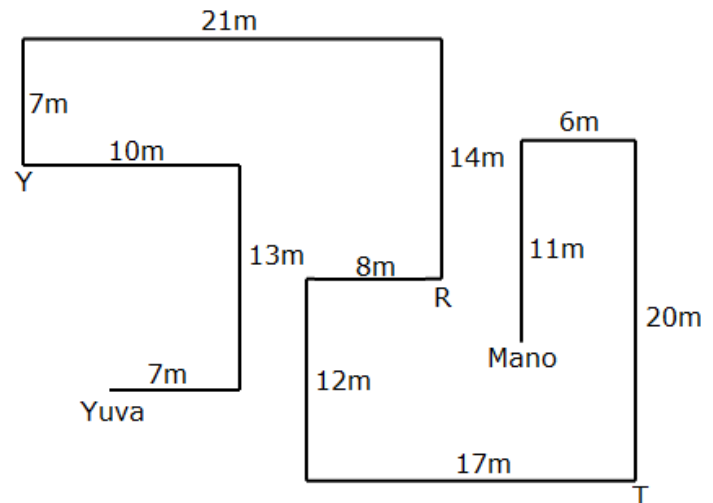
16) Answer: C

17) Answer: D

18) Answer: B

19) Answer: C

20) Answer: A



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### Quantitative Aptitude

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

The given table shows the total number of students and the number of girls in three different schools in two different years.

School	Year			
	1999		2000	
	Total students	Total girls	Total students	Total girls
A	288	144	360	180
B	144	72	240	72
C	180	108	160	48

1) What is the difference between the number of boys in A, B and C together in 1999 and 2000?

- A. 168
- B. 170
- C. 166
- D. 172
- E. 174

2) If the number of boys in school D in 1999 is 40% more than the number of boys in A in 2000 and the number of girls in D in 1999 is five-ninth of the number of boys in the same school in same year, then find the ratio of the total number of students in D to B in 1999?

- A. 49:18
- B. 45:26
- C. 50:19
- D. 51:20
- E. 7:3

3) If the number of boys who like Physics and chemistry in class B in 2000 is in the ratio of 4:3 and the number of girls in class B in 2000 who like chemistry and physics is in the ratio of 4:5, then the number of students in B in 2000 who like chemistry is what percent of the number of students who like physics in B in 2000?

- A. 72.34%
- B. 74.76%
- C. 76.47%
- D. 80.32%
- E. 78.45%

4) Find the ratio of the number of girls in A and C together in 2000 to the number of boys in B and C together in 1999?

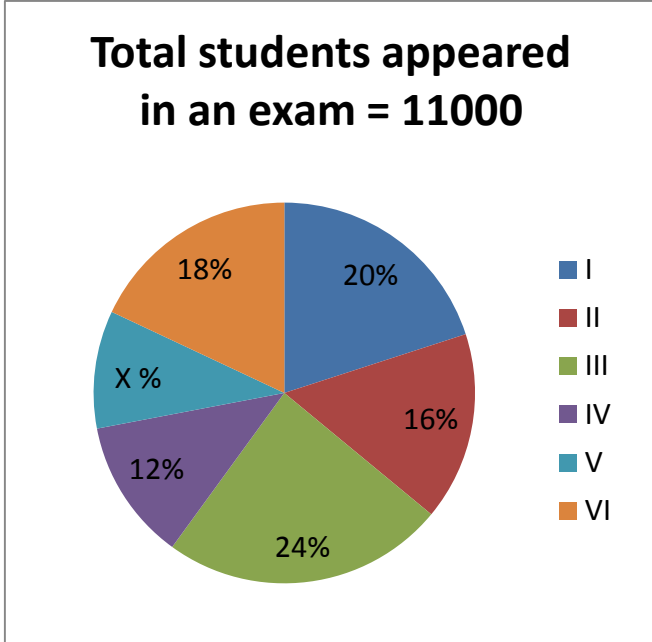
- A. 14:9
- B. 15:11
- C. 17:13
- D. 19:12
- E. 20:17

5) The total number of students in D in 2000 is average of the total number of students in 1999 in A, B and C. If the ratio of the number of boys and girls in D in 2000 is 6:11, then find the difference between the number of boys and girls in D in 2000?

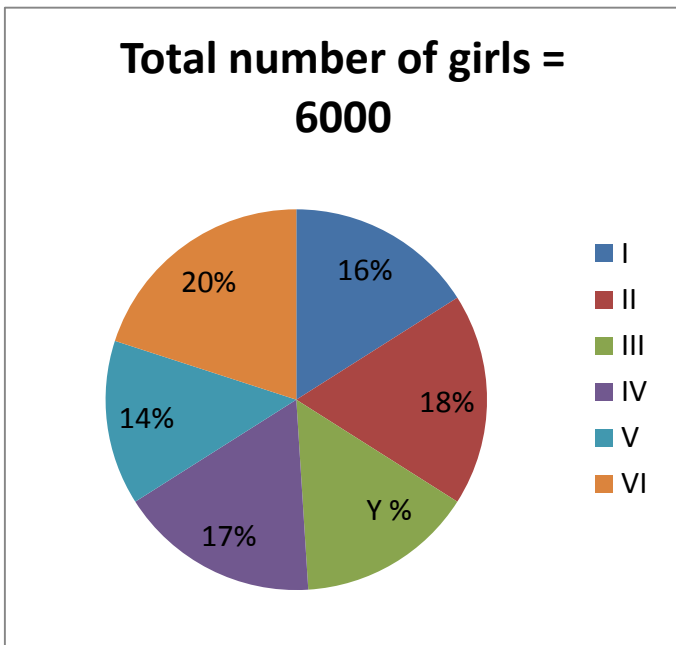
- A. 40
- B. 60
- C. 50
- D. 70
- E. 80

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Directions (6-10): Study the following information carefully and answer the questions given below. The given pie chart shows the percentage breakup of total students who appeared in six different shifts of an exam.



The given pie chart shows the percentage breakup of the total number of girls who appeared in six different shifts of an exam.



6) The number of boys who appeared in shift VI is what percent of the number of girls who appeared in shift II?

- A. 67.78%
- B. 72.22%
- C. 70.70%
- D. 68.67%
- E. 78.98%

7) What is the difference between the number of boys who appeared in shift I and V together and the total number of students who appeared in shift IV?

- A. 120
- B. 150
- C. 180
- D. 200
- E. 210

8) What is the ratio of the total number of students who appeared in shift III and V together to the number of boys who appeared in shift II and IV together?

- A. 173:50
- B. 179:52
- C. 181:48
- D. 187:49
- E. None of these

9) The number of boys who appeared in shift III is what percent of the total number of girls who appeared in shift I, V and VI together?

- A. 67%
- B. 62%

- C. 51%
- D. 55%
- E. 58%

10) What is the difference between the total number of girls who appeared in shift III and IV together and the total number of students who appeared in shift VI and I together?

- A. 2260
- B. 2280
- C. 2290
- D. 2310
- E. 2320

11) Vessel A contains the mixture of vanilla and choco flavor ice cream in the ratio of 4:5 and vessel B contains the mixture of choco and vanilla flavor ice cream in the ratio of 5:7. If the quantity of Choco flavor in A is 100% more than that of B, then what is the ratio of the quantity of choco flavor in A to the quantity of vanilla flavor in B?

- A. 10:7
- B. 5:3
- C. 9:5
- D. 11:8
- E. Cannot be determined

12) Train A crosses train B running in the opposite direction at the speed of 48 kmph in 24 seconds and when the train A crosses train B is moving in the same direction in 2 minutes. If the length of train A is 100 m more than that of train

B and the speed of train A is more than train B, then find the length of train B?

- A. 250 m
- B. 300 m
- C. 350 m
- D. 400 m
- E. 450 m

13) A and B started the business with the investment in the ratio of 5:3 and after 6 months, A and B added the amount in the ratio of 3:2. At the end of the year, the profit share of A out of total profit of Rs.6260 is Rs.3900, find the initial investment of B?

- A. Rs.3600
- B. Rs.4500
- C. Rs.3900
- D. Rs.4200
- E. Cannot be determined

14) A can complete the work in 24 days and B and C together can complete the work in 16 days and A and C together can complete the work in 12 days. In how many days B alone completes the work?

- A. 24 days
- B. 36 days
- C. 48 days
- D. 56 days
- E. None of these

15) The income of A and B is in the ratio of 3:2 and the expenditure of A and B is Rs.4800 and

Rs.3600 respectively. If the ratio of the savings of A and B is 2:1, then find the income of A?

- A. Rs.6000
- B. Rs.6600
- C. Rs.7200
- D. Rs.7800
- E. Rs.9000

16) The speed of current is 60% of the speed of the boat in still water. If the total time taken by the boat to cover 320 km downstream and 120 km upstream is 25 hours, then find the time taken by the boat to cover 32 km upstream and 64 km downstream?

- A. 4 hours
- B. 6 hours
- C. 5 hours
- D. 8 hours
- E. None of these

17) The cost price of the calculator is Rs.(x + 150) and the selling price of the calculator is Rs.2x. If the shopkeeper earned the profit of 62.5% and the cost price of the calculator is half of the selling price of the watch and the shopkeeper offers a discount of Rs. 400 for the watch, then find the marked price of the watch?

- A. Rs.2000
- B. Rs.2400
- C. Rs.2800
- D. Rs.3200
- E. Rs.3600

18) Ratio of the ages of A and B is 4:5 and the average age of B and C after 5 years is 37.5 years. If the average of the ages of A, B and C is  $28\frac{1}{3}$  years, then find the present age of C?

- A. 40
- B. 30
- C. 50
- D. 60
- E. 45

19) Ratio of the number of CSE to ECE students in school A is 5:4 and the ratio of the number of CSE students in A to B is 5:8 and the ratio of the number of ECE students in A to B is 4:5. If the average of the number of CSE and ECE students in B is 195, then find the number of CSE students in school B?

- A. 160
- B. 240
- C. 80
- D. 120
- E. 40

20) The number of female population in Chennai is 45% of the total number of male population in the same city. If the number of male population is increased by 60% and the number of female population is decreased by 40%, then what is the percentage change in the total population in the city?

- A. 24.49%
- B. 26.54%
- C. 28.96%
- D. 30.26%

E. 32.87%

**Directions (21-26):** What value should come in the place of (?) in the following questions.

21)  $12\frac{3}{4} + 7\frac{1}{8} + 5\frac{1}{2} = ?/16$

- A. 406
- B. 408
- C. 410
- D. 412
- E. 414

22)  $7 * 29 + 665 \div 35 = ? + 172$

- A. 30
- B. 40
- C. 50
- D. 60
- E. 80

23)  $\sqrt{361} * 14 - 2639 \div \sqrt{169} = ? * 9$

- A. 12
- B. 10
- C. 9
- D. 7
- E. 5

24)  $40\% \text{ of } 320 - 896 \div \sqrt{1024} = ? * \sqrt{25}$

- A. 20
- B. 25
- C. 30
- D. 35
- E. 40

25)  $54 * 17 + 40\% \text{ of } 2070 - 42 * \sqrt{1024} = ? * \sqrt{36}$

- A. 67
- B. 64
- C. 69
- D. 71
- E. 73

26)  $65\% \text{ of } 200 - 75\% \text{ of } 480 + 5236 \div 17 = ?$

- A. 72
- B. 76
- C. 78
- D. 80
- E. 84

**Directions (27-32):** What approximate value should come in the place of (?) in the following questions.

27)  $(36.08)^2 + 14.14^2 + 24.98^2 = ?$

- A. 2087
- B. 2110
- C. 2117
- D. 2096
- E. 2132

28)  $(124.901) * (11.93) + 219.95 = ? + 114.891 * 13.90$

- A. 120
- B. 115
- C. 125
- D. 110
- E. 135

29)  $(68.91 \div 319.901) * (40.09 \div 275.93) * ? = \sqrt{530}$

- A. 732

- B. 736
- C. 739
- D. 743
- E. 748

30)  $191.13 + 24.78 * 2.15 * 9.73 = ?$

- A. 691
- B. 245
- C. 130
- D. 907
- E. 1039

31)  $12.01 * 4.78 - \sqrt{144.13} = ?$

- A. 12
- B. 24
- C. 31
- D. 48
- E. 91

32)  $3 \frac{1}{4} * 615.91 - 24.13 * 9.51 = ?$

- A. 1762
- B. 1203
- C. 1345
- D. 1534
- E. 2341

**Directions (33-38):** The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer,

**33)**

I)  $x^2 - 31x + 198 = 0$

II)  $y^2 - 35y + 304 = 0$

- A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

**34)**

I)  $x^2 - 25x + 156 = 0$

II)  $y^2 - 3y - 108 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

**35)**

I)  $x^2 + 22x + 105 = 0$

II)  $y^2 + 23y + 126 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

**36)**

I)  $x^2 + 9x - 792 = 0$

II)  $y^2 + 68y + 1155 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

**37)**

I)  $x^2 - 5x - 84 = 0$

II)  $y^2 - 29y + 198 = 0$

- A.  $x < y$
- B.  $x > y$
- C.  $x \leq y$
- D.  $x \geq y$
- E. Relationship between  $x$  and  $y$  cannot be determined

**38)**

I)  $x^2 - 12x + 35 = 0$

II)  $y^2 + 15y + 54 = 0$

- A.  $x < y$
- B.  $x > y$
- C.  $x \leq y$
- D.  $x \geq y$
- E. Relationship between  $x$  and  $y$  cannot be determined

**Directions (39-44): Find out the wrong number in the following number series.**

**39) 12, 29, 42, 53, 60, 67**

- A. 67
- B. 42
- C. 60
- D. 29
- E. 53

**40) 22, 161, 272, 357, 418, 456**

- A. 161
- B. 456
- C. 357
- D. 418
- E. 272

**41) 13, 27, 56, 102, 167, 254**

- A. 167
- B. 102
- C. 56
- D. 27
- E. 254

**42) 4320, 2160, 720, 182.25, 39.45, 10.575**

- A. 182.25
- B. 10.575
- C. 720
- D. 39.45
- E. 2160

**43) 14, 27, 44, 65, 90, 120**

- A. 14
- B. 27
- C. 65
- D. 44
- E. 120

**44) 220, 202, 186, 176, 165, 190**

- A. 176
- B. 165
- C. 202
- D. 188
- E. 186

**Directions (45-50): What value should come in the place of (?) in the following number series?**

**45) 4913, 2197, ?, 343, 125, 27**

- A. 1197
- B. 1331
- C. 216



D. 1728

E. 512

46) 1716, 2183, 2728, 3357, 4076, ?

A. 4129

B. 4586

C. 4762

D. 4871

E. 4891

47) 7, 45, 96, 148, 203, ?

A. 243

B. 245

C. 251

D. 258

E. 261

48) ?, 1235, 1252, 1295, 1384

A. 1235

B. 1230

C. 1225

D. 1220

E. 1233

49) 12, 54, 124, 222, 348, ?

A. 498

B. 486

C. 502

D. 512

E. 490

50) 18, 99, ?, 212, 248, 273

A. 100

B. 163

C. 210

D. 120

E. 200

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### Answer Key with Explanation

Directions (1-5):

Number of boys in school A in 1999 =  $288 - 144$

= 144

Number of boys in school B in 1999 =  $144 - 72$   
= 72

Number of boys in school C in 1999 =  $180 - 108$   
= 72

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$$\begin{aligned} \text{Number of boys in school A in 2000} &= 360 - 180 \\ &= 180 \end{aligned}$$

$$\begin{aligned} \text{Number of boys in school B in 2000} &= 240 - 72 \\ &= 168 \end{aligned}$$

$$\begin{aligned} \text{Number of boys in school C in 2000} &= 160 - 48 \\ &= 112 \end{aligned}$$

**1) Answer: D**

$$\begin{aligned} \text{Required difference} &= (180 + 168 + 112) - (144 \\ &+ 72 + 72) \\ &= 172 \end{aligned}$$

**2) Answer: A**

$$\begin{aligned} \text{Number of boys in D in 1999} &= 140/100 * 180 \\ &= 252 \end{aligned}$$

$$\text{Number of girls in D in 1999} = 5/9 * 252 = 140$$

$$\text{Required ratio} = (140 + 252):144$$

$$= 392:144$$

$$= 49:18$$

**3) Answer: C**

$$\text{Number of boys like physics} = 168 * 4/7 = 96$$

$$\text{Number of boys like chemistry} = 168 * 3/7 = 72$$

$$\text{Number of girls like physics} = 72 * 5/9 = 40$$

$$\text{Number of girls like chemistry} = 72 * 4/9 = 32$$

$$\text{Required \%} = (72 + 32)/(96 + 40) * 100$$

$$= 76.47\%$$

**4) Answer: D**

$$\text{Required ratio} = (180 + 48):(72 + 72)$$

$$= 228:144$$

$$= 19:12$$

**5) Answer: B**

$$\begin{aligned} \text{Number of students in D in 2000} &= (288 + 144 + \\ &180)/3 \end{aligned}$$

$$= 204$$

$$\text{Difference} = 5/17 * 204 = 60$$

**Directions (6-10):**

The given pie charts represent 100%, so we can calculate X and Y easily.

$$X = 100\% - (20 + 16 + 24 + 12 + 18)\% = 10\%, Y$$

$$= 100\% - (16 + 18 + 17 + 14 + 20) = 15\%$$

Shifts	Total	Girls	Boys
I	2200	960	1240
II	1760	1080	680
III	2640	900	1740
IV	1320	1020	300
V	1100	840	260
VI	1980	1200	780

**6) Answer: B**

$$\begin{aligned} \text{Required percentage} &= 780/1080 * 100 = \\ &72.22\% \end{aligned}$$

**7) Answer: C**

$$\begin{aligned} \text{Required difference} &= (1240 + 260) - 1320 = \\ &180 \end{aligned}$$

**8) Answer: D**

$$\text{Required ratio} = (2640 + 1100):(680 + 300)$$

$$= 3740:980$$

$$= 187:49$$

**9) Answer: E**

$$\text{Required percentage}$$

$$= 1740/(960 + 840 + 1200) * 100$$

$$= 58\%$$

10) Answer: A

$$\begin{aligned} \text{Difference} &= (1980 + 2200) - (1020 + 900) \\ &= 2260 \end{aligned}$$

11) Answer: A

$$\text{Vanilla in A} = 4x$$

$$\text{Choco in A} = 5x$$

$$\text{Choco in B} = 100/200 * 5x = 2.5x$$

$$\text{Vanilla in B} = 2.5x * 7/5 = 3.5x$$

$$\text{Required ratio} = 5x:3.5x$$

$$= 10:7$$

12) Answer: C

$$\text{Length of train B} = x$$

$$\text{Length of train A} = x + 100$$

$$\text{Speed of train A} = y$$

$$x + x + 100 = (y + 48) * 5/18 * 24$$

$$6x + 300 = 20y + 960$$

$$6x - 20y = 660 \text{ -----(1)}$$

$$x + x + 100 = (y - 48) * 5/18 * 120$$

$$6x + 300 = 100y - 4800$$

$$6x - 100y = -5100 \text{ -----(2)}$$

$$80y = 5760$$

$$y = 72$$

$$x = 350 \text{ m}$$

13) Answer: E

$$\text{Profit ratio of A and B} = (5x * 6 + 3y * 6):(3x * 6$$

$$+ 2y * 6)$$

$$= (30x + 18y):(18x + 12y)$$

$$(30x + 18y)/(48x + 30y) = 3900/6260$$

$$9360x + 5850y = 9390x + 5634y$$

$$30x = 216y$$

$$x/y = 36/5$$

14) Answer: C

$$A = 1/24$$

$$B + C = 1/16$$

$$A + C = 1/12$$

$$C = 1/12 - 1/24 = 1/24$$

$$B = 1/16 - 1/24$$

$$= 1/48$$

15) Answer: C

$$(3x - 4800)/(2x - 3600) = 2/1$$

$$4x - 7200 = 3x - 4800$$

$$x = 2400$$

$$\text{Income of A} = 3 * 2400 = 7200$$

16) Answer: B

$$\text{Speed of the boat} = 5x$$

$$\text{Speed of the current} = 5x * 60/100 = 3x$$

$$320/(5x + 3x) + 120/(5x - 3x) = 25$$

$$40 + 60 = 25x$$

$$x = 4$$

$$\text{Speed of the current} = 3 * 4 = 12 \text{ kmph}$$

$$\text{Speed of the boat} = 5 * 4 = 20 \text{ kmph}$$

$$\text{Required time} = 32/(20 - 12) + 64/(20 + 12)$$

$$= 6 \text{ hours}$$

17) Answer: A

$$(x + 150) * 162.5/100 = 2x$$

$$x = \text{Rs.}650$$

$$\text{CP of the calculator} = 650 + 150 = \text{Rs.}800$$

$$\text{SP of the watch} = 800 * 2 = \text{Rs.}1600$$

$$\text{MP of the watch} - 400 = 1600$$

$$\text{MP of the watch} = 2000$$

18) Answer: A

$$A = 4x$$

$$B = 5x$$

$$B + 5 + C + 5 = 37.5 * 2 = 75$$

$$B + C = 65$$

$$C = 65 - 5x$$

$$(4x + 5x + 65 - 5x)/3 = 85/3$$

$$4x = 20$$

$$x = 5$$

$$\text{Present age of C} = 65 - 25 = 40$$

19) Answer: B

$$\text{CSE students in school A} = 5x$$

$$\text{ECE students in school A} = 4x$$

$$\text{CSE students in school B} = 8/5 * 5x = 8x$$

$$\text{ECE students in school B} = 5/4 * 4x = 5x$$

$$(8x + 5x)/2 = 195$$

$$x = 30$$

$$\text{Number of CSE students in B} = 8 * 30 = 240$$

20) Answer: C

$$\text{Male population in Chennai} = 100x$$

$$\text{Female population in Chennai} = 100x * 45/100 = 45x$$

$$\text{Total population in Chennai} = 45x + 100x = 145x$$

$$\text{After increasing male population in Chennai} = 100x * 160/100 = 160x$$

$$\text{After decreasing female population in Chennai} = 45x * 60/100 = 27x$$

$$\text{New total population in Chennai} = 160x + 27x = 187x$$

$$\begin{aligned} \text{Required percentage} &= (187x - 145x)/145x * 100 \\ &= 28.96\% \end{aligned}$$

21) Answer: A

$$12(3/4) + 7(1/8) + 5(1/2) = ?/16$$

$$51/4 + 57/8 + 11/2 = ?/16$$

$$?/16 = (102 + 57 + 44)/8$$

$$?/16 = 203/8$$

$$? = 406$$

22) Answer: C

$$7 * 29 + 665 \div 35 = ? + 172$$

$$203 + 19 = ? + 172$$

$$? = 50$$

23) Answer: D

$$\sqrt{361} * 14 - 2639 \div \sqrt{169} = ? * 9$$

$$266 - 203 = ? * 9$$

$$7 = ?$$

24) Answer: A

$$40\% \text{ of } 320 - 896 \div \sqrt{1024} = ? * \sqrt{25}$$

$$128 - 28 = ? * 5$$

$$20 = ?$$

25) Answer: A

$$54 * 17 + 40\% \text{ of } 2070 - 42 * \sqrt{1024} = ? * \sqrt{36}$$

$$918 + 828 - 1344 = ? * 6$$

$$67 = ?$$

26) Answer: C

$$65\% \text{ of } 200 - 75\% \text{ of } 480 + 5236 \div 17 = ?$$

$$130 - 360 + 308 = ?$$

$$78 = ?$$

27) Answer: C

$$(36.08)^2 + 14.14^2 + 24.98^2 = ?$$

$$1296 + 196 + 625 = ?$$

$$? = 2117$$

**28) Answer: D**

$$(124.901) * (11.93) + 219.95 = ? + 114.891 * 13.90$$

$$1500 + 220 = ? + 1610$$

$$? = 110$$

**29) Answer: B**

$$(68.91 \div 319.901) * (40.09 \div 275.93) * ? = \sqrt{530}$$

$$? = 736$$

**30) Answer: A**

$$191.13 + 24.78 * 2.15 * 9.73 = ?$$

$$\Rightarrow 191 + 25 * 2 * 10$$

$$\Rightarrow 191 + 500$$

$$\Rightarrow 691$$

**31) Answer: D**

$$12.01 * 4.78 - \sqrt{144.13} = ?$$

$$\Rightarrow 12 * 5 - 12$$

$$\Rightarrow 48$$

**32) Answer: A**

$$3 \frac{1}{4} * 615.91 - 24.13 * 9.51 = ?$$

$$\Rightarrow 13/4 * 616 - 24 * 10$$

$$\Rightarrow 1762$$

**33) Answer: C**

$$x^2 - 31x + 198 = 0$$

$$x^2 - 22x - 9x + 198 = 0$$

$$x(x - 22) - 9(x - 22) = 0$$

$$x = 9, 22$$

$$y^2 - 35y + 304 = 0$$

$$y^2 - 16y - 19y + 304 = 0$$

$$y(y - 16) - 19(y - 16) = 0$$

$$y = 16, 19$$

Relationship can't be determined.

**34) Answer: B**

$$x^2 - 25x + 156 = 0$$

$$x^2 - 12x - 13x + 156 = 0$$

$$x(x - 12) - 13(x - 12) = 0$$

$$x = 12, 13$$

$$y^2 - 3y - 108 = 0$$

$$y^2 - 12y + 9y - 108 = 0$$

$$y(y - 12) + 9(y - 12) = 0$$

$$y = 12, -9$$

$$x \geq y$$

**35) Answer: C**

$$x^2 + 22x + 105 = 0$$

$$x^2 + 15x + 7x + 105 = 0$$

$$x(x + 15) + 7(x + 15) = 0$$

$$x = -15, -7$$

$$y^2 + 23y + 126 = 0$$

$$y^2 + 9y + 14y + 126 = 0$$

$$y(y + 9) + 14(y + 9) = 0$$

$$y = -9, -14$$

Relationship between x and y cannot be established.

**36) Answer: B**

$$x^2 + 9x - 792 = 0$$

$$x^2 + 33x - 24x - 792 = 0$$

$$x(x + 33) - 24(x + 33) = 0$$

$$x = 24, -33$$

$$y^2 + 68y + 1155 = 0$$

$$y^2 + 33y + 35y + 1155 = 0$$

$$y(y + 33) + 35(y + 33) = 0$$

$$y = -33, -35$$

$$x \geq y$$

**37) Answer: E**

I:  $x^2 - 5x - 84 = 0$

$$\Rightarrow x^2 - 12x + 7x - 84 = 0$$

$$\Rightarrow x(x - 12) + 7(x - 12) = 0$$

$$\Rightarrow (x - 12)(x + 7) = 0$$

$$\Rightarrow x = 12, -7$$

II:  $y^2 - 29y + 198 = 0$

$$\Rightarrow y^2 - 11y - 18y + 198 = 0$$

$$\Rightarrow y(y - 11) - 18(y - 11) = 0$$

$$\Rightarrow (y - 11)(y - 18) = 0$$

$$\Rightarrow y = 11, 18$$

Hence, relationship between x and y cannot be determined

**38) Answer: B**

I:  $x^2 - 12x + 35 = 0$

$$\Rightarrow x^2 - 5x - 7x + 35 = 0$$

$$\Rightarrow x(x - 5) - 7(x - 5) = 0$$

$$\Rightarrow (x - 5)(x - 7) = 0$$

$$\Rightarrow x = 5, 7$$

II:  $y^2 + 15y + 54 = 0$

$$\Rightarrow y^2 + 9y + 6y + 54 = 0$$

$$\Rightarrow y(y + 9) + 6(y + 9) = 0$$

$$\Rightarrow (y + 6)(y + 9) = 0$$

$$\Rightarrow y = -6, -9$$

Hence,  $x > y$

**39) Answer: A**

$$12 + 17 = 29$$

$$29 + 13 = 42$$

$$42 + 11 = 53$$

$$53 + 7 = 60$$

$$60 + 5 = 65$$

**40) Answer: B**

$$22 + 12^2 - 5 = 161$$

$$161 + 11^2 - 10 = 272$$

$$272 + 10^2 - 15 = 357$$

$$357 + 9^2 - 20 = 418$$

$$418 + 8^2 - 25 = 457$$

**41) Answer: E**

$$13 + 2^2 + 10 = 27$$

$$27 + 3^2 + 20 = 56$$

$$56 + 4^2 + 30 = 102$$

$$102 + 5^2 + 40 = 167$$

$$167 + 6^2 + 50 = 253$$

**42) Answer: C**

$$4320/2 + 0 = 2160$$

$$2160/3 + 1 = 721$$

$$721/4 + 2 = 182.25$$

$$182.25/5 + 3 = 39.45$$

$$39.45/6 + 4 = 10.575$$

**43) Answer: E**

$$(2 * 7) = 14$$

$$(3 * 9) = 27$$

$$(4 * 11) = 44$$

$$(5 * 13) = 65$$

$$(6 * 15) = 90$$

$$(7 * 17) = 119$$

**44) Answer: B**

$$220 + (6 * -3) = 202$$

$$202 + (8 * -2) = 186$$

$$186 + (10 * -1) = 176$$

$$176 + (12 * 0) = 176$$

$$176 + (14 * 1) = 190$$

**45) Answer: B**

Cube of prime numbers

$$17^3 = 4913$$

$$13^3 = 2197$$

$$11^3 = 1331$$

$$7^3 = 343$$

$$5^3 = 125$$

$$3^3 = 27$$

**46) Answer: E**

$$12^3 - 12 = 1716$$

$$13^3 - 14 = 2183$$

$$14^3 - 16 = 2728$$

$$15^3 - 18 = 3357$$

$$16^3 - 20 = 4076$$

$$17^3 - 22 = 4891$$

**47) Answer: B**

$$7 + (19 * 2) = 45$$

$$45 + (17 * 3) = 96$$

$$96 + (13 * 4) = 148$$

$$148 + (11 * 5) = 203$$

$$203 + (7 * 6) = 245$$

**48) Answer: B**

1230	1235	1252	1295	1384
	5	17	43	89
	$(1^3 + 2^2)$	$(2^3 + 3^2)$	$(3^3 + 4^2)$	$(4^3 + 5^2)$

**49) Answer: C**

$$12 + (14 * 3) = 54$$

$$54 + (14 * 5) = 124$$

$$124 + (14 * 7) = 222$$

$$222 + (14 * 9) = 348$$

$$348 + (14 * 11) = 502$$

**50) Answer: B**

$$18 + 9^2 = 99$$

$$99 + 8^2 = 163$$

$$163 + 7^2 = 212$$

$$212 + 6^2 = 248$$

$$248 + 5^2 = 273$$

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