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### Reasoning Ability

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

Eight departments viz. Cardiology, Dentistry, Emergency, Neonatal, Neurology, Oncology, Pediatric and Pharmacy of a hospital are on eight different floors of the same building, but not necessarily in the same order. The lowermost floor is numbered 1 and the floor immediately above is numbered 2 and so on.

Neonatal is on an odd-numbered floor and two floors above Cardiology. Only three floors are there between Cardiology and Oncology. The number of floors above Oncology is the same as the number of floors below Pediatric. Neurology is two floors below Pediatric. Emergency is two floors below Pediatric. Emergency is above Dentistry and below Pharmacy which is not placed anywhere above Cardiology.

**1. Which of the following department is on floor 6?**

- A. The department which is immediately above Cardiology
- B. The department which is two floors below Pharmacy
- C. The department which is two floors above Emergency
- D. The department which is three floors above Dentistry
- E. None of these

**2. How many floors are there between Neurology and Emergency?**

- A. One

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

**3. 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. Oncology
- B. Neonatal
- C. Cardiology
- D. Emergency
- E. Pediatric

**4. Which of the following department is two floors above Pharmacy?**

- A. Neonatal
- B. Dentistry
- C. Oncology
- D. Neurology
- E. None of these

**5. On which of the following floor does Dentistry was located?**

- A. The floor immediately below Oncology
- B. The floor immediately above Emergency
- C. Two floors below Pharmacy
- D. Three floors below Neonatal
- E. None of these

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

In a school, seven students viz. C, E, G, J, K, R and U undergone the IQ test in which each person secures certain level of range, but not necessarily in the same order. They are ordered based on the range they secured. Only one person secures in between E and C. C secured immediately higher than J and E secures more than C. R secures immediately lower than G but higher than both K and U. At least two persons secure higher range than E. Neither J nor U secures the least range. The second highest person has the IQ range of 126 whereas the second least person has the IQ range of 96. The difference in the IQ range of immediate persons will be more than 5.

**6. Who among the following person has the highest and the least IQ range respectively?**

- A. U, K
- B. R, J
- C. G, K
- D. K, G
- E. None of these

**7. How many persons secure less IQ range than U?**

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

**8. If the IQ range more than 100 comes under above average category and less than 100 comes under below average category, then how**

**many person are there in the above average category?**

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

**9. If the sum of the IQ range of E and J is 213 and the difference of the IQ range of R and U is 17, then what is the sum of the IQ range of E and U?**

- A. 216
- B. 226
- C. 223
- D. 228
- E. None of these

**10. What is the possible IQ range of U from the given information?**

- A. 111
- B. 107
- C. 85
- D. 89
- E. None of these

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

Ten things viz. Bed, Chair, Comb, Dress, Mirror, Mobile, Pillow, Powder, Soap and Towel are placed at different positions in a rectangular room such that all the things are equidistance from each other and are facing towards the

centre, but not necessarily in the same order.

Four things are placed at the corners, two things are placed at each of the longer sides and one thing is placed at each of the shorter sides.

Two things are placed between Soap and Towel, which is placed at one of the longer side. Chair is placed to the immediate left of Soap and third to the right of Comb. Powder is placed exactly opposite to Comb and third to the left of Dress.

The number of things from the left of Comb to Dress is the same from the right of Powder to Pillow. Bed is placed exactly between Mobile and Mirror which is not placed adjacent to Pillow. Mirror is not placed at any corners.

**11. Which of the following thing is placed second to the right of Comb?**

- A. Mobile
- B. The one which is placed immediate left of Pillow
- C. Towel
- D. The one which is placed second to the left of Soap
- E. None of these

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

- A. Towel is placed to the immediate left of Mobile
- B. Three things are placed between Bed and Chair when counted from the right of bed.
- C. More than two things are placed from the left of Pillow to Soap
- D. Mirror is placed third to the right of Powder
- E. None of these

**13. 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. Pillow
- B. Dress
- C. Chair
- D. Comb
- E. Powder

**14. How many things are placed between Towel and Mobile when counted from the right of Mobile?**

- A. Six
- B. Eight
- C. Four
- D. Seven
- E. None of these

**15. What is the position of Dress with respect to Mirror?**

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

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

Eight persons viz. I, J, K, L, M, N, O, and P were born on four different dates viz. 8<sup>th</sup>, 13<sup>th</sup>, 16<sup>th</sup>, and 21<sup>st</sup> of two different months viz. September and October in the same year, but not necessarily in the same order. No two

persons were born on the same date of the same month.

Both M and N were born on different even dates of the different months. P was born immediately before I. L was born in a month having less than 31 days but not before I. K was born after O in the same month. J was born on a prime date but before N.

16. Who among the following person was born on 16<sup>th</sup> October?

- A. J
- B. K
- C. N
- D. I
- E. O

17. On which of the following date does P was born?

- A. 16th September
- B. 13th October
- C. 16th October
- D. 13th September
- E. 8th September

18. Which of the following number shows that the sum of birth dates of I and K?

- A. 38
- B. 41
- C. 36
- D. 37
- E. None of the above

19. Which of the following pair is the eldest and the youngest among all?

- A. P, K
- B. M, K
- C. P, L
- D. M, O
- E. None of these

20. How many persons were born after O?

- A. Four
- B. Three more than the number of persons born after L.
- C. One
- D. No one
- E. Two less than the number of persons born before J.

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**Answer Key with Explanation**

Directions (1-5):

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

Floor	Departments
8	Pediatric
7	Neonatal
6	Neurology
5	Cardiology
4	Pharmacy
3	Emergency
2	Dentistry
1	Oncology

1. Neonatal is on an odd-numbered floor and two floors above Cardiology. Only three floors are there between Cardiology and Oncology.

	Case 1	Case 2	Case 3
Floor	Departments	Departments	Departments
8			
7	Neonatal	Oncology	
6			
5	Cardiology	Neonatal	Oncology
4			
3		Cardiology	Neonatal
2			
1	Oncology		Cardiology

2. The number of floors above Oncology is the same as the number of floors below Pediatric. Neurology is two floors below Pediatric. Hence, case 2 gets eliminated.

	Case 1	<del>Case 2</del>	Case 3
Floor	Departments	Departments	Departments
8	Pediatric		
7	Neonatal	Oncology	
6	Neurology		
5	Cardiology	Neonatal	Oncology
4			Pediatric
3		Cardiology	Neonatal
2		Pediatric	Neurology
1	Oncology		Cardiology

3. Emergency is above Dentistry and below Pharmacy, which is not placed anywhere above Cardiology. Hence, case 3 gets eliminated.

	Case 1	<del>Case 3</del>
Floor	Departments	Departments
8	Pediatric	
7	Neonatal	
6	Neurology	
5	Cardiology	Oncology
4	Pharmacy	Pediatric
3	Emergency	Neonatal
2	Dentistry	Neurology
1	Oncology	Cardiology

Directions (6-10):

6. Answer: C
7. Answer: C
8. Answer: D
9. Answer: B
10. Answer: A

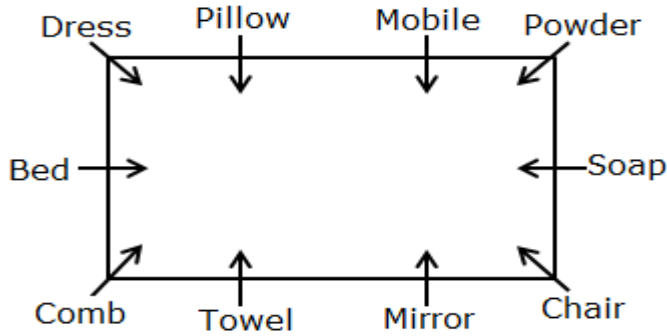
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From the given information, the following were determined.

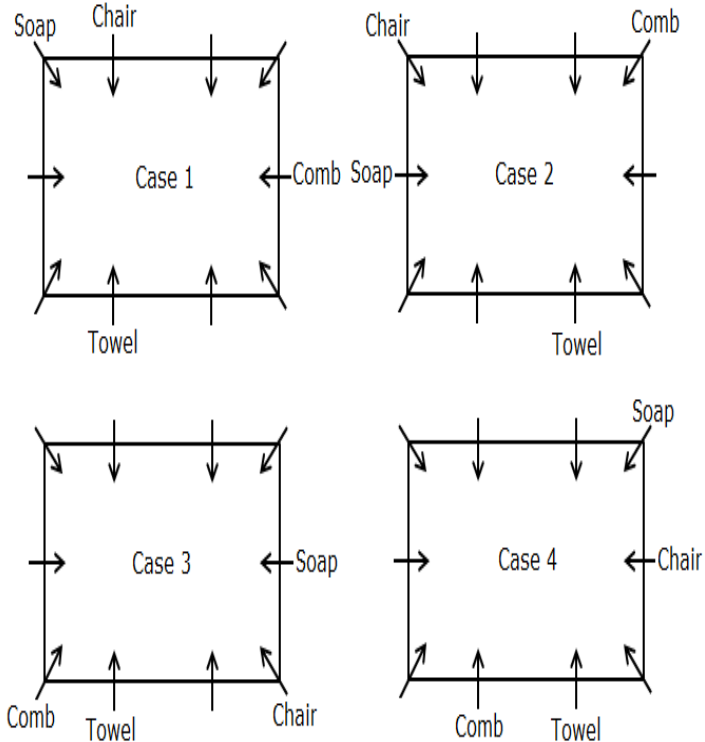
$G > R (126) > E > U > C > J (96) > K$

**Directions (11-15):**

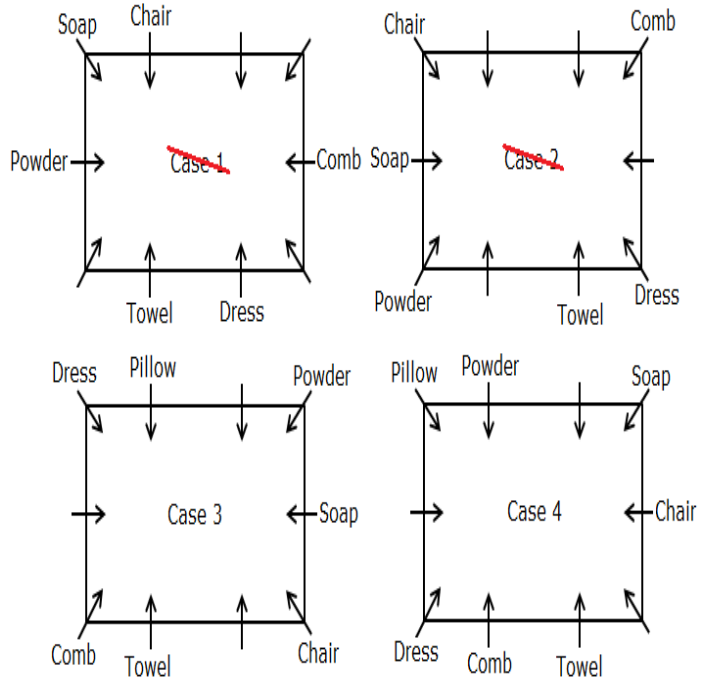
- 11. Answer: D
- 12. Answer: B
- 13. Answer: A
- 14. Answer: C
- 15. Answer: B



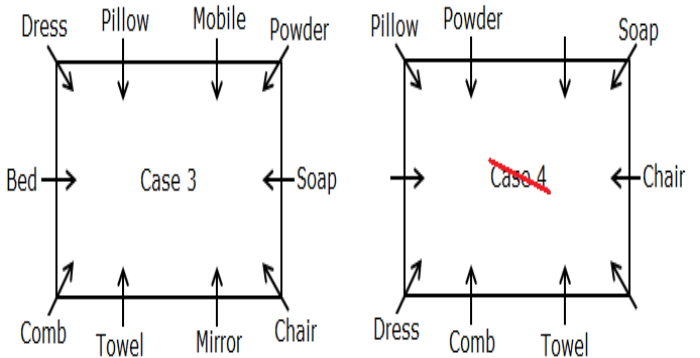
1. Two things are placed between Soap and Towel, which is placed at one of the longer side. Chair is placed to the immediate left of Soap and third to the right of Comb.



2. Powder is placed exactly opposite to Comb and third to the left of Dress. The number of things from the left of Comb to Dress is the same from the right of Powder to Pillow. Hence, cases 1 and 2 get eliminated.



3. Bed is placed exactly between Mobile and Mirror which is not placed adjacent to Pillow. Mirror is not placed at any corners. Hence, case 4 gets eliminated.



Direction (16-20):

- 16. Answer: C
- 17. Answer: D
- 18. Answer: D
- 19. Answer: B
- 20. Answer: E

	September	October
8 <sup>th</sup>	M	O
13 <sup>th</sup>	P	J
16 <sup>th</sup>	I	N
21 <sup>st</sup>	L	K

1. Both M and N were born on different even dates of the different months.

	Case 1		Case 2	
	September	October	September	October
8 <sup>th</sup>	M/N			M/N
13 <sup>th</sup>				
16 <sup>th</sup>		M/N	M/N	
21 <sup>st</sup>				

2. P was born immediately before I. L was born in a month having less than 31 days but not before I.

	Case 1		Case 2	
	September	October	September	October
8 <sup>th</sup>	M/N		P	M/N
13 <sup>th</sup>	P		I	
16 <sup>th</sup>	I	M/N	M/N	
21 <sup>st</sup>	L		L	

3. K was born after O in the same month. J was born on a prime date but before N. Hence, case 2 gets eliminated.

	Case 1		<del>Case 2</del>	
	September	October	September	October
8 <sup>th</sup>	M	O	P	M/N
13 <sup>th</sup>	P	J	I	J
16 <sup>th</sup>	I	N	M/N	
21 <sup>st</sup>	L	K	L	

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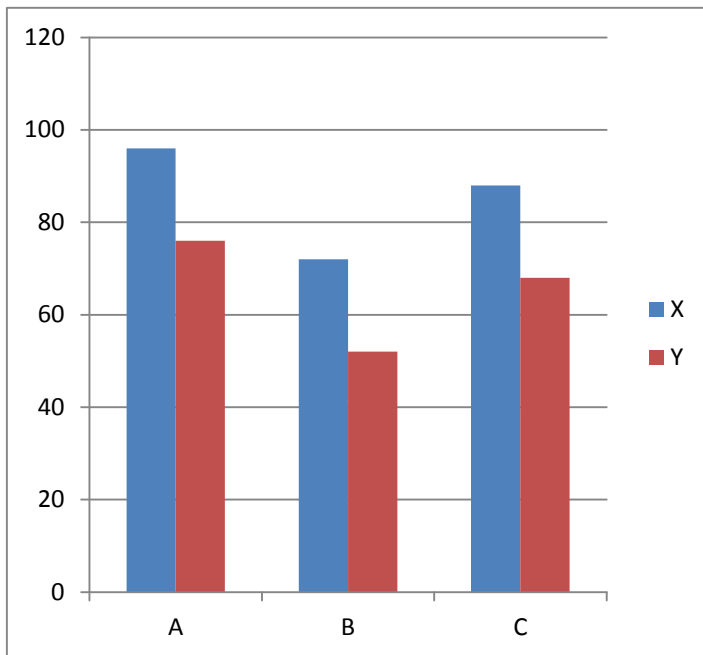
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## Quantitative Aptitude

**Directions (01-05):** Study the following information carefully and answer the questions given below.

The given bar graph shows the two types of school buses x and y for three different schools A, B and C.



1) The average number of all buses from school A is what percent of the average number of all buses from school C?

- A. 110.25%
- B. 113.56%
- C. 115.70%
- D. 117.45%
- E. 119.05%

2) Which school has maximum number of buses?

- A. B
- B. C
- C. A
- D. A and C

E. B and C

3) X type of buses from school D is 125% of the X type of buses from A and Y type of buses from D is 50% more than the number of X type buses from B. Find the total number of buses from D?

- A. 232
- B. 228
- C. 224
- D. 236
- E. 242

4) What is the difference between the average number of all buses from school B and the average number of X type buses from school B and C together?

- A. 14
- B. 16
- C. 20
- D. 18
- E. 22

5) Number of X type buses from E is the average number of type Y buses from B and C and the ratio of the number of X type and Y type buses from E is 3:5. Find the difference between the total number of buses from A and E?

- A. 12
- B. 15
- C. 18
- D. 20
- E. None of these

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

The given table shows the three different shopkeepers who sold the number of items on three different days.

Shopkeeper	Monday	Tuesday	Wednesday
A	480	720	630
B	600	540	960
C	450	990	840

6) The number of items sold by D on Monday is the average number of items sold by all three shopkeepers on Wednesday and the number of items sold by D on Tuesday is the number of items sold by A and B on Monday. Find the number of items sold by D on Tuesday and Monday?

- A. 1860
- B. 1890
- C. 1850
- D. 1840
- E. 1820

7) The number of items sold by B and C on Wednesday is what percent of the number of items sold by A and B together on Tuesday?

- A. 138.76%
- B. 140.75%
- C. 142.85%
- D. 136.96%
- E. 144.04%

8) What is the average number of items sold by B on Monday and Tuesday together and the number of items sold by A on Tuesday and Wednesday together?

- A. 1245
- B. 1255
- C. 1235
- D. 1265
- E. None of these

9) The number of items sold by B on all three days together is what percent of the number of items sold by C on all three days together?

- A. 87.5%
- B. 90.4%
- C. 92.1%
- D. 89.2%
- E. 94.3%

10) The number of items sold by E on Monday is the average number of items sold by A on all the three days together and the number of items sold by E on Monday, Tuesday and Wednesday in the ratio of 5:3:1, then find the difference between the number of items sold by E on Tuesday and Wednesday?

- A. 236
- B. 238
- C. 242
- D. 244
- E. 248

11) The average age of David, Bala and Devi is 36 years and the difference between the ages of

David and Devi is 20 years. If the ratio of the ages of David and Devi after 2 years is 3:5, then find the age of Bala after 8 years?

- A. 40
- B. 42
- C. 36
- D. 32
- E. 28

12) Ramesh invests Rs.x in a simple interest scheme at the rate of R% per annum for 3 years and Rahul invests Rs.x in a simple interest scheme at the rate of (R + 4)% per annum for 5 years. If the interest received by Ramesh and Rahul in the ratio of 9:20, then find the value of R?

- A. 10
- B. 15
- C. 16
- D. 12
- E. 8

13) 12 women and 5 men complete the work in  $2\frac{2}{5}$  days and 8 women and 10 men complete the same work in 2 days. In how many days one man and one woman complete the same work?

- A.  $21\frac{6}{13}$  days
- B.  $20\frac{6}{13}$  days
- C.  $17\frac{6}{13}$  days
- D.  $16\frac{6}{13}$  days
- E.  $18\frac{6}{13}$  days

14) The difference between the speed of upstream and downstream is 18 kmph and the

average speed of upstream and downstream 18 kmph. The boat travelled 8 hours upstream and x hours downstream, If the distance travelled upstream is 63 km less than that of downstream, then find the value of x?

- A. 4
- B. 5
- C. 7
- D. 6
- E. 3

15) The marked price of the mobile is 25% above its cost price. If the shopkeeper gives the discount of Rs.300, while he gets the profit of Rs.1200, then find the selling price of the mobile?

- A. Rs.7500
- B. Rs.7000
- C. Rs.7800
- D. Rs.7200
- E. Rs.8000

16) A and B started the business with the investment of Rs.x and Rs.(x + 1000) respectively and the investment period of A and B is 12 months and 10 months respectively. At the end of the business, the total profit of the business is Rs.14400 and the profit share of B is Rs.7000. Find the value of x?

- A. Rs.7200
- B. Rs.7400
- C. Rs.7600
- D. Rs.7800
- E. None of these

17) Vessel A contains the mixture of milk and water in the ratio of 4:3. If 35 liters of mixture is taken out and now the difference between the milk and water in the remaining mixture is 4 liters, then find the quantity of the initial mixture of the vessel?

- A. 70
- B. 56
- C. 63
- D. 84
- E. 77

18) Ratio of the perimeter of rectangle to circumference of the circle is 3:4. If the radius of the circle is 1 cm less than the breadth of the rectangle and the length of the rectangle is 18 cm, then find the area of the rectangle?

- A. 198 cm<sup>2</sup>
- B. 252 cm<sup>2</sup>
- C. 288 cm<sup>2</sup>
- D. 270 cm<sup>2</sup>
- E. 216 cm<sup>2</sup>

19) Ratio of the number of male and female passengers in bus A and B is 3:4 and 5:3 respectively. If total number of passengers in A and B is 7:12, then find the ratio of the number of male to female passengers in A and B together?

- A. 21:17
- B. 20:19
- C. 23:18
- D. 12:9
- E. None of these

20) Ratio of the income of Shalini and Deepa is 2:3. If Shalini spends 45% of the income and Deepa spends 35% of the income and the total savings amount of Deepa and Shalini is Rs.30500, then find the income of Deepa?

- A. Rs.15000
- B. Rs.30000
- C. Rs.45000
- D. Rs.36000
- E. Rs.60000

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

21)  $2990 \div 23 - 3960 \div 11 + 22 * \sqrt{196} = ? * 3$

- A. 22
- B. 26
- C. 28
- D. 30
- E. 34

22)  $45\% \text{ of } 320 + 20\% \text{ of } 120 = ?$

- A. 168
- B. 164
- C. 158
- D. 160
- E. 155

23)  $\frac{64^2}{17} \div \frac{16}{34} + 54 \times \frac{15}{18}$

- A. 269
- B. 350
- C. 452
- D. 557
- E. 596

24) ? \* (25% of 80) = 28% of 500

- A. 10
- B. 12
- C. 7
- D. 4
- E. 1

25)  $12^3 - ?^2 = \sqrt{256} * 59$

- A. 26
- B. 28
- C. 24
- D. 31
- E. 30

26)  $22 * 31 + 45 * 18 - 62 * 15 = ?$

- A. 492
- B. 502
- C. 552
- D. 562
- E. 542

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

27)  $(37.07)^2 - \sqrt{5930} = ? * 3 - \sqrt{2810}$

- A. 408
- B. 440
- C. 444
- D. 448
- E. 416

28)  $79.91 + 84.13 * 2.04 + 11.14 = ? + 25.04$

- A. 100
- B. 234

C. 315

- D. 424
- E. 510

29)  $(9.75\% \text{ of } 1249.87) \div 3.15 + 18.91 = ?$

- A. 61
- B. 89
- C. 113
- D. 171
- E. 181

30)  $9.01 * 8.67 + 12.13^2 = 25.96 * ?$

- A. 1
- B. 9
- C. 23
- D. 31
- E. 47

31)  $11.15\% \text{ of } 841.12 + 8.05\% \text{ of } 413.02 = 13.01 * ?$

- A. 2
- B. 5
- C. 14
- D. 10
- E. 21

32)  $1239.98/2.12 * \frac{1}{2} \text{ of } 19.75 + 41.12 = ?$

- A. 6241
- B. 10180
- C. 14850
- D. 17501
- E. 18902

Directions (33-38): Find out the wrong number in the following number series.

13) 13, 12, 17, 35, 83, 183

- A. 12
- B. 183
- C. 83
- D. 17
- E. 35

34) 46, 43, 48, 52, 76, 121

- A. 43
- B. 76
- C. 48
- D. 121
- E. 52

35) 56, 73, 99, 136, 186, 256

- A. 256
- B. 136
- C. 99
- D. 186
- E. 73

36) 31, 48, 67, 90, 111, 136

- A. 90
- B. 136
- C. 67
- D. 48
- E. 111

37) 15, 29, 57, 99, 155, 224

- A. 224
- B. 15
- C. 29

D. 57

E. 155

38) 5, 15, 30, 57, 85, 115

- A. 15
- B. 30
- C. 57
- D. 85
- E. 115

Directions (39 - 44): What value should come in the place of (?) in the following number series?

39) 25, 78, 196, 379, 647, ?

- A. 1032
- B. 1000
- C. 1002
- D. 1010
- E. 1018

40) 13, 18, 40, ?, 494, 2471

- A. 119
- B. 121
- C. 112
- D. 123
- E. 128

41) 42, 78, 128, 193, 274, ?

- A. 369
- B. 372
- C. 321
- D. 358
- E. 396

42) 6, 7, 34, 159, ?, 1231

- A. 448
- B. 502
- C. 486
- D. 386
- E. 498

43) 25, 15, ?, 17, 19.4, 21.88

- A. 15
- B. 15.5
- C. 16
- D. 16.5
- E. 17

44) 23, 24, 75, ?, 2667, 24012

- A. 100
- B. 320
- C. 380
- D. 410
- E. 908

**Directions (45-50):** 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,

45)

I)  $x^2 + 19x - 150 = 0$

II)  $y^2 + 25y + 114 = 0$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined.
- D.  $x < y$
- E.  $x \leq y$

46)

I)  $x^2 - 32x + 247 = 0$

II)  $y^2 - 22y + 117 = 0$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined.
- D.  $x < y$
- E.  $x \leq y$

47)

I)  $x^2 + 27x + 152 = 0$

II)  $y^2 - y - 56 = 0$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined.
- D.  $x < y$
- E.  $x \leq y$

48)

I)  $x^2 - 26x + 168 = 0$

II)  $y^2 - 40y + 364 = 0$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined.
- D.  $x < y$
- E.  $x \leq y$

49)

I)  $x^2 - 19x - 92 = 0$

II)  $y^2 + 22y + 72 = 0$

- A.  $x > y$
- B.  $x \geq y$
- C.  $x = y$  or relationship can't be determined.
- D.  $x < y$



E.  $x \leq y$

50)

I)  $x^2 + 27x + 126 = 0$

II)  $y^2 + 25y + 100 = 0$

A.  $x > y$

B.  $x \geq y$

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

D.  $x < y$

E.  $x \leq y$

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**Answer Key with Explanation**

1) Answer: A

$$\begin{aligned} \text{Required percentage} &= ((96 + 76)/2)/((88 + 68)/2) \\ &* 100 \\ &= 110.25\% \end{aligned}$$

2) Answer: C

$$A = 96 + 76 = 172$$

$$B = 72 + 52 = 124$$

$$C = 88 + 68 = 156$$

3) Answer: B

$$\begin{aligned} \text{Number of x type buses from D} &= 125/100 * 96 = \\ &120 \end{aligned}$$

$$\begin{aligned} \text{Number of y type buses from D} &= 150/100 * 72 = \\ &108 \end{aligned}$$

$$\text{Required total} = 108 + 120 = 228$$

4) Answer: D

$$\begin{aligned} \text{Average number of buses from B} &= (72 + 52)/2 = \\ &62 \end{aligned}$$

$$\begin{aligned} \text{Average number of X type buses from B and C} &= \\ (72 + 88)/2 &= 80 \end{aligned}$$

$$\text{Difference} = 80 - 62 = 18$$

5) Answer: A

$$\begin{aligned} \text{Number of X type buses from E} &= (52 + 68)/2 = \\ &60 \end{aligned}$$

$$\text{Number of Y type buses from E} = 5/3 * 60 = 100$$

$$\begin{aligned} \text{Required difference} &= (96 + 76) - (100 + 60) \\ &= 12 \end{aligned}$$

6) Answer: B

$$\begin{aligned} \text{Number of items sold by D on Monday} &= (630 + \\ 960 + 840)/3 &= 810 \end{aligned}$$

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Number of items sold by D on Tuesday =  $480 + 600 = 1080$   
 Required total =  $1080 + 810 = 1890$

**7) Answer: C**

Required % =  $(960 + 840)/(540 + 720) * 100 = 1800 * 100 / 1260 = 142.85\%$

**8) Answer: A**

Required average =  $((600 + 540) + (720 + 630))/2 = 2490/2 = 1245$

**9) Answer: C**

Required % =  $(600 + 540 + 960)/(450 + 990 + 840) * 100 = 2100 * 100 / 2280 = 92.10\%$

**10) Answer: D**

Number of items sold by E on Monday =  $(480 + 720 + 630)/3 = 610$   
 Required difference =  $2/5 * 610 = 244$

**11) Answer: A**

David + Bala + Devi =  $36 * 3 = 108$   
 $(5x - 2) - (3x - 2) = 20$   
 $2x = 20$   
 $x = 10$   
 Present age of David =  $3 * 10 - 2 = 28$   
 Present age of Devi =  $5 * 10 - 2 = 48$

Present age of Bala =  $108 - 28 - 48 = 32$   
 Required age =  $32 + 8 = 40$  years

**12) Answer: D**

SI received by Ramesh =  $x * R * 3/100 = 3Rx/100$   
 SI received by Rahul =  $x * (R + 4) * 5/100 = 5x/100 * (R + 4)$   
 $(3Rx/100)/(5x/100 * (R + 4)) = 9/20$   
 $60R = 45R + 180$   
 $R = 12$

**13) Answer: E**

$(12w + 5m) * 12/5 = (8w + 10m) * 2$   
 $72w + 30m = 40w + 50m$   
 $20m = 32w$   
 $5m = 8w$   
 $12w + 8w = 5/12$   
 $w = 1/48$   
 $5m = 8/48$   
 $m = 1/30$   
 One man + one Woman =  $1/30 + 1/48 = 78/30 * 48 = 13/240$   
 Required time =  $240/13 = 18(6/13)$  days

**14) Answer: B**

Speed of current =  $18/2 = 9$  kmph  
 Speed of boat =  $18$  kmph  
 Upstream speed =  $18 - 9 = 9$  kmph  
 Speed of downstream =  $18 + 9 = 27$  kmph  
 Distance covered upstream =  $9 * 8 = 72$  km  
 Distance covered downstream =  $72 + 63 = 135$  km

$$x = 135/27 = 5 \text{ hours}$$

**15) Answer: D**

$$\text{CP of mobile} = 100x$$

$$\text{MP of mobile} = 100x * 125/100 = 125x$$

$$125x - 300 = 100x + 1200$$

$$25x = 1500$$

$$x = 60$$

$$\text{SP of mobile} = 60 * 100 + 1200 = 7200$$

**16) Answer: B**

$$\text{Profit share of A and B} = x * 12 : (x + 1000) * 10$$

$$= 6x : (x + 1000) * 5$$

$$(5x + 5000) / (11x + 5000) = 7000 / 14400$$

$$385x + 175000 = 360x + 360000$$

$$x = 7400$$

**17) Answer: C**

$$\text{Milk in 35 liters} = 35 * 4/7 = 20$$

$$\text{Water in 35 liters} = 35 * 3/7 = 15$$

$$(4x - 20) - (3x - 15) = 4$$

$$x - 5 = 4$$

$$x = 9$$

$$\text{Initial quantity of vessel} = 9 * 7 = 63 \text{ liters}$$

**18) Answer: D**

$$R = B - 1$$

$$2 * (18 + B) / (2 * 22/7 * (B - 1)) = 3/4$$

$$6 * 22/7 * (B - 1) = 8 * (18 + B)$$

$$(66B - 66) / 7 = 72 + 4B$$

$$66B - 66 = 504 + 28B$$

$$B = 15$$

$$\text{Area of the rectangle} = 15 * 18 = 270 \text{ cm}^2$$

**19) Answer: A**

$$\text{Total Number of passengers in A} = 7x$$

$$\text{Total Number of passengers in B} = 12x$$

$$\text{Number of male passengers in A} = 7x * 3/7 = 3x$$

$$\text{Number of female passengers in A} = 7x * 4/7 = 4x$$

$$\text{Number of male passengers in B} = 12x * 5/8 = 7.5x$$

$$\text{Number of female passengers in B} = 12x * 3/8 = 4.5x$$

$$\text{Required ratio} = (3x + 7.5x) : (4x + 4.5x)$$

$$= 10.5x : 8.5x$$

$$= 21 : 17$$

**20) Answer: B**

$$2x * 55/100 + 3x * 65/100 = 30500$$

$$110x + 195x = 3050000$$

$$x = 10000$$

$$\text{Income of Deepa} = 3 * 10000 = \text{Rs.}30000$$

**21) Answer: B**

$$2990 \div 23 - 3960 \div 11 + 22 * \sqrt{196} = ? * 3$$

$$130 - 360 + 308 = ? * 3$$

$$? = 78/3$$

$$? = 26$$

**22) Answer: A**

$$45\% \text{ of } 320 + 20\% \text{ of } 120 = ?$$

$$? = 144 + 24$$

$$? = 168$$

**23) Answer: D**

$$\frac{64 * 64}{17} * \frac{34}{16} + 54 * \frac{15}{18} = ?$$

$$? = 512 + 45$$

$$? = 557$$

**24) Answer: C**

$$? * (25\% \text{ of } 80) = 28\% \text{ of } 500$$

$$? * 20 = 140$$

$$? = 7$$

**25) Answer: B**

$$12^3 - ?^2 = \sqrt{256} * 59$$

$$1728 - 944 = ?^2$$

$$? = 28$$

**26) Answer: D**

$$22 * 31 + 45 * 18 - 62 * 15 = ?$$

$$682 + 810 - 930 = ?$$

$$562 = ?$$

**27) Answer: D**

$$(37.07)^2 - \sqrt{5930} = ? * 3 - \sqrt{2810}$$

$$1369 - 77 + 53 = ? * 3$$

$$? = 448$$

**28) Answer: B**

$$79.91 + 84.13 * 2.04 + 11.14 = ? + 25.04$$

$$\Rightarrow 80 + 84 * 2 + 11 - 25$$

$$\Rightarrow 234$$

**29) Answer: A**

$$(9.75\% \text{ of } 1249.87) \div 3.15 + 18.91 = ?$$

$$\Rightarrow (10\% \text{ of } 1250) \div 3 + 19$$

$$\Rightarrow 61$$

**30) Answer: B**

$$9.01 * 8.67 + 12.13^2 = 25.96 * ?$$

$$\Rightarrow 9 * 9 + 12^2 = 26 * ?$$

$$\Rightarrow 9$$

**31) Answer: D**

$$11.15\% \text{ of } 841.12 + 8.05\% \text{ of } 413.02 = 13.01 * ?$$

$$\Rightarrow 11\% \text{ of } 841 + 8\% \text{ of } 413 = 13 * ?$$

$$\Rightarrow 93 + 33 = 13 * ?$$

$$\Rightarrow 10$$

**32) Answer: A**

$$1239.98/2.12 * \frac{1}{2} \text{ of } 19.75 + 41.12 = ?$$

$$\Rightarrow 1240/2 * \frac{1}{2} * 20 + 41$$

$$\Rightarrow 6241$$

**33) Answer: A**

$$13 + (1^2 * 0) = 13$$

$$13 + (2^2 * 1) = 17$$

$$17 + (3^2 * 2) = 35$$

$$35 + (4^2 * 3) = 83$$

$$83 + (5^2 * 4) = 183$$

**34) Answer: C**

$$46 + (-3 * 1) = 43$$

$$43 + (0 * 2) = 43$$

$$43 + (3 * 3) = 52$$

$$52 + (6 * 4) = 76$$

$$76 + (9 * 5) = 121$$

**35) Answer: A**

$$56 + 4^2 + 1 = 73$$

$$73 + 5^2 + 1 = 99$$

$$99 + 6^2 + 1 = 136$$

$$136 + 7^2 + 1 = 186$$

$$186 + 8^2 + 1 = 251$$

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**36) Answer: A**

$$31 + 17 = 48$$

$$48 + 19 = 67$$

$$67 + 21 = \mathbf{88}$$

$$88 + 23 = 111$$

$$111 + 25 = 136$$

**37) Answer: A**

$$15 + (14 * 1) = 29$$

$$29 + (14 * 2) = 57$$

$$57 + (14 * 3) = 99$$

$$99 + (14 * 4) = 155$$

$$155 + (14 * 5) = \mathbf{225}$$

**38) Answer: B**

$$5 + (10 * 1) = 15$$

$$15 + (9 * 2) = \mathbf{33}$$

$$33 + (8 * 3) = 57$$

$$57 + (7 * 4) = 85$$

$$85 + (6 * 5) = 115$$

**39) Answer: C**

$$25 + 53 * 1 = 78$$

$$78 + 59 * 2 = 196$$

$$196 + 61 * 3 = 379$$

$$379 + 67 * 4 = 647$$

$$647 + 71 * 5 = \mathbf{1002}$$

**40) Answer: D**

$$(13 * 1) + 5 = 18$$

$$(18 * 2) + 4 = 40$$

$$(40 * 3) + 3 = \mathbf{123}$$

$$(123 * 4) + 2 = 494$$

$$(494 * 5) + 1 = 2471$$

**41) Answer: B**

$$42 + (24 * 1.5) = 78$$

$$78 + (25 * 2) = 128$$

$$128 + (26 * 2.5) = 193$$

$$193 + (27 * 3) = 274$$

$$274 + (28 * 3.5) = \mathbf{372}$$

**42) Answer: B**

$$6 + 1^3 = 7$$

$$7 + 3^3 = 34$$

$$34 + 5^3 = 159$$

$$159 + 7^3 = \mathbf{502}$$

$$502 + 9^3 = 1231$$

**43) Answer: A**

$$25/5 + 10 = 15$$

$$15/5 + 12 = \mathbf{15}$$

$$15/5 + 14 = 17$$

$$17/5 + 16 = 19.4$$

$$19.4/5 + 18 = 21.88$$

**44) Answer: C**

$$23 * 1 + 1 = 24$$

$$24 * 3 + 3 = 75$$

$$75 * 5 + 5 = \mathbf{380}$$

$$380 * 7 + 7 = 2667$$

$$2667 * 9 + 9 = 24012$$

**45) Answer: C**

$$x^2 + 19x - 150 = 0$$

$$x^2 + 25x - 6x - 150 = 0$$

$$x(x + 25) - 6(x + 25) = 0$$

$$(x - 6)(x + 25) = 0$$

$$x = 6, -25$$

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$$y^2 + 25y + 114 = 0$$

$$y^2 + 19y + 6y + 114 = 0$$

$$y(y + 19) + 6(y + 19) = 0$$

$$(y + 6)(y + 19) = 0$$

$$y = -6, -19$$

Relationship between  $x$  and  $y$  cannot be established.

**46) Answer: B**

$$x^2 - 32x + 247 = 0$$

$$x^2 - 13x - 19x + 247 = 0$$

$$x(x - 13) - 19(x - 13) = 0$$

$$(x - 13)(x - 19) = 0$$

$$x = 13, 19$$

$$y^2 - 22y + 117 = 0$$

$$y^2 - 13y - 9y + 117 = 0$$

$$y(y - 13) - 9(y - 13) = 0$$

$$(y - 9)(y - 13) = 0$$

$$y = 9, 13$$

$$x \geq y$$

**47) Answer: D**

$$x^2 + 27x + 152 = 0$$

$$x^2 + 19x + 8x + 152 = 0$$

$$x(x + 19) + 8(x + 19) = 0$$

$$(x + 8)(x + 19) = 0$$

$$x = -19, -8$$

$$y^2 - y - 56 = 0$$

$$y^2 - 8y + 7y - 56 = 0$$

$$y(y - 8) + 7(y - 8) = 0$$

$$(y + 7)(y - 8) = 0$$

$$y = 8, -7$$

$$x < y$$

**48) Answer: E**

$$x^2 - 26x + 168 = 0$$

$$x^2 - 12x - 14x + 168 = 0$$

$$x(x - 12) - 14(x - 12) = 0$$

$$(x - 14)(x - 12) = 0$$

$$x = 14, 12$$

$$y^2 - 40y + 364 = 0$$

$$y^2 - 26y - 14y + 364 = 0$$

$$y(y - 26) - 14(y - 26) = 0$$

$$(y - 14)(y - 26) = 0$$

$$y = 14, 26$$

$$x \leq y$$

**49) Answer: B**

$$x^2 - 19x - 92 = 0$$

$$x^2 + 4x - 23x - 92 = 0$$

$$x(x + 4) - 23(x + 4) = 0$$

$$(x - 23)(x + 4) = 0$$

$$x = 23, -4$$

$$y^2 + 22y + 72 = 0$$

$$y^2 + 4y + 18y + 72 = 0$$

$$y(y + 4) + 18(y + 4) = 0$$

$$(y + 18)(y + 4) = 0$$

$$y = -18, -4$$

$$x \geq y$$

**50) Answer: C**

$$x^2 + 27x + 126 = 0$$

$$x^2 + 6x + 21x + 126 = 0$$

$$x(x + 6) + 21(x + 6) = 0$$

$$(x + 21)(x + 6) = 0$$

$$x = -21, -6$$

$$y^2 + 25y + 100 = 0$$

$$y^2 + 20y + 5y + 100 = 0$$

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$$y(y + 20) + 5(y + 20) = 0$$

$$(y + 5)(y + 20) = 0$$

$$y = -5, -20$$

Relationship between  $x$  and  $y$  cannot be established.

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