



Directions for question nos. 1-2: Eighty Five children went to amusement park where they could ride on merry –go-round roller coaster and Ferris wheel .It was known that 20 of them have took all three rides and 55 of them have taken at least two of the three rides. Each ride cost Rs.1 and the total receipt of the amusement park was Rs.145.

1) How many children did not try any of the rides. ?

A) 5 B) 10 C) 15 D) 20

Ans. 15.

20 kids * 3 rides = Rs. 60

(55-20=)35 kids * 2 rides = Rs. 70

60 + 70 = Rs. 130

So, Rs. (145 - 130 =) 15 are left for the other (85 - 55 =) 30 kids . so only 15 of them can take a ride and rest 15 will be left out.

145 rides were taken. 20 of them took all three, i.e. Rs. 60 were spent, so 145-60= Rs. 85 are left for the others. Total kids were 85, so rest were 65. out of these 65,

2) How many children took exactly one ride?

A) 5 B) 10 C) 15 D) 20



Ans. 15

3) Four cities are connected by a road network as shown in the figure. In how many ways can you start from any city and come back to it without travelling on the same road more than once ?

- A) 8
- B) 12
- C) 16
- D) 20

Ans. 12.

Consider the top city, the following are the 3 routes possible, starting from the leftmost edge. Since there are 3 edges emanating from each city and the figure is perfectly symmetrical, these 3 routes are possible from each edge, hence for any given city, the total number of routes = $4 * 3 = 12$.

Directions for question nos 4-5:

A, B, and C are three numbers, Let

@(A, B)= Average of A and B

*(A, B)=Product of A and B

/(A, B)=A divided by B

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4) If $A=2$ and $B=4$ the value of $@(/ (*A,B),B),A$ would be

- A) 2
- B) 4
- C) 6
- D) 16

Ans. 2

5) Sum of A and B is given by

- A) $*(@A, B), 2$
- B) $/(@A,B),2$
- C) $@(*A,B),2$
- D) $@/(A,B),2$

Ans. A.

6) Let $x < 0, 01$ which of the following is false:

- A) $(x^2 - z^2)$ has to be positive.
- B) yz can be less than one.
- C) xy can never be zero
- D) $(y^2 - z^2)$ is always negative



Ans. A.

7) If A's income is 25% less than B's ,by what % is B's income greater than that of A ?

- A) 35%
- B) 25%
- C) 30%
- D) None of these

Ans. D.

Directions for question nos 8-12: A professor keeps data on students tabulated by the *** and the performance of the student. Data is kept in a computer disk, but unfortunately some of it is lost because of a virus. Only the following could be recovered:

Performance Total

Average Good Excellent

Male 10

Female 32

Total 30

Panic buttons were pressed but to no avail. An expert committee was formed, which decided that the following facts were self evident:

- a) Half the students were either good or excellent.

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- b) 40% of the students were female
- c) One third of male students were average

8) How many students were both female and excellent?

- A) 0
- B) 8
- C) 16
- D) 32

Ans. A

Performance Total

Average Good Excellent

Male 10 48

Female 32

Total 30 80

Panic buttons were pressed but to no avail. An expert committee was formed, which decided that the following facts were self evident:

d) Half the students were either good or excellent. (implies the total of good and excellent is 40, i.e., half of 80)

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e) 40% of the students were female (this implies that 32 is 40% of the total students, hence total students are 80, this implies that males are 48, calculate the rest yourself)

f) One third of male students were average

9) What proportion of good students are male?

- A) 0
- B) 0.73
- C) 0.4
- D) 1.0

Ans. B.

10) What proportion of female students are good?

- A) 0
- B) 0.25
- C) 0.50
- D) 1.0

Ans. B

11) How many students are both male and good?

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- A) 10
- B) 16
- C) 22
- D) 48

Ans. C

12) Among average students, what is the ratio of male to female?

- A) 1:2
- B) 2:1
- C) 3:2
- D) 2:3

Ans. D

ANALYTICAL

Directions for Questions Nos: 13 to 17

Five executives of a multinational company met in Bombay:

Mr. Ram can speak Tamil and Hindi

Mr. Sham speaks Tamil and English

Mr. Raju converses in English and Hindi

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Mr.Balu speaks Telugu and Tamil quite well.

Mr.Lalu can speak Hindi and Telugu

13) Which of the following can act as a interpreter when Mr.Raju and Mr.Balu wish to confer?

- A) Mr.Ram Only
- B) Mr.Sham Only.
- C) Either Mr.Ram or Mr.Sham
- D) Any of the other three executives.

Ans. D

14) Besides Mr. Lalu, which of the following can converse with Mr.Balu without an Interpreter?

- A) Mr.Ram Only
- B) Mr.Sham only
- C) Mr.Ram and Mr.Sham
- D) Mr.Raju Only

Ans. C

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15) Which of the following cannot converse without interpreter?

- A) Mr. Sham and Mr.Lalu.
- B) Mr. Ram and Mr. Sham
- C) Mr. Ram and Mr. Raju
- D) Mr. Sham and Mr. Balu

Ans. A

16) If a sixth executive is brought in, for him to be understood by the maximum number of original five, he should be fluent in?

- A) English and Telugu
- B) Hindi and Tamil
- C) Telugu and Hindi
- D) Hindi and English

Ans. B

17) Of the languages spoken the most common languages are

- A) English and Tamil
- B) English and Hindi
- C) English and Telugu
- D) Hindi and Tamil

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Ans. D

Directions for Questions Nos:18 to 21

Four people of different nationalities live on the same side of a street in four houses each of different color. Each person has a different favorite drink. The following additional information also known:

The Englishman lives in the red house.

The Italian drinks tea.

The Norwegian lives in the first house on the left.

In the second house from the right they drink milk

The Norwegian lives adjacent to the blue house

The Spaniard drinks fruit juice

Tea is drunk in the blue house.

The White House is to the right of the red house

18) Milk is drunk by

A) Norwegian

B) Englishman

C) Italian

D) None of these



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Ans. B

19) The Norwegian drinks

- A) Milk
- B) Cocoa
- C) Tea
- D) Fruit Juice

Ans. B

20) The color of Norwegian's house is

- A) Yellow
- B) White
- C) Blue
- D) red

Ans. A

21) Which of the following is not true:

- A) Milk is drunk in the red house
- B) Italian lives in the blue house
- C) The Spaniard lives in a corner house

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D) The Italian lives next to Spaniard.

Ans. D

Directions for Questions Nos: 22 to 23

Kya-Kya is an island in the south pacific .The inhabitants of Kya-Kya always answer any question with two sentences, one of which is always true and other is always false.

22) You are walking on a road and come to a fork. You ask the inhabitants Ram, Laxman, Lila, "Which road will take me to the village?"

Ram says, "I never speak to strangers. I am new to this place"

Laxman says, "I am married to Lila. Take the left road".

Lila says, "I am married to ram. He is not new to this place"

Which of the following is true?

- A) Left road takes you to the village
- B) Right road takes you to the village
- C) Lila is married to laxman
- D) None of above

Ans. A.

Ram said he never talked to strangers, but he spoke to a stranger, this means that this statement is false, hence his other statement must be true, hence the second

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statement of Lila is false, hence her first statement is true that is she is married to ram, hence the first statement of Laxman is false, hence his second statement is true, that is take the left road.

23) You find that your boat is stolen. You question three inhabitants of the island and they reply as follows:

John says, "I didn't do it. Mathew didn't do it"

Matthew says, "I didn't do it. Krishna didn't do it."

Krishna says, "I didn't do it .I don't know who did it."

Who stole your boat?

- A) John
- B) Matthew
- C) Krishna
- D) None of them.

Ans. B

Matthew said he didn't know who did it, but he also said he didn't do it, which means he knows who did it, which means his second statement is false, which means his first statement is true...

Directions for question nos 24-25: There are five trains A, B, C, D and E that run between the following stations:

Bombay and Pune

Calcutta and Bombay

Pune and Goa

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Goa and Bombay

Pune and Calcutta

Trains A and D do not go to Bombay, B&C do not go to Calcutta and C & D do not touch Goa.

24) Train E goes from..... to..... and vice-versa

A.Pune and Calcutta

B.Bombay to Goa

C.Bombay to Calcutta

D.Goa to Pune.

Ans. C

25) Which train runs between Calcutta and Pune?

A) A

B) B

C) C

D) D

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Ans. D

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