

IBPS RRB GROUP B MAINS



**REASONING ABILITY
IMPORTANT QUESTIONS
FOR ALL COMPETITIVE EXAMS**

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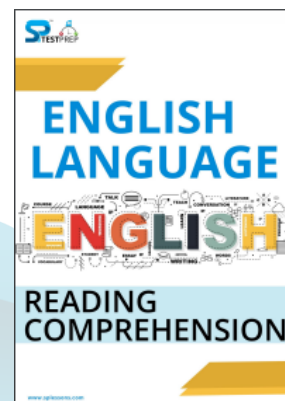
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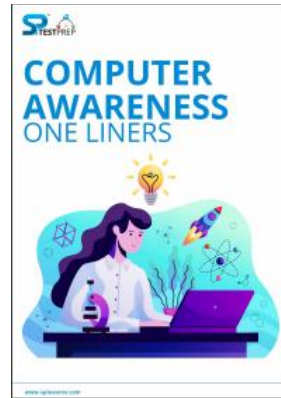


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1. in the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:

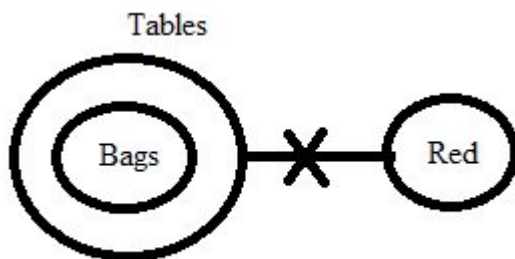
- I. All bags are tables.
- II. No table is red.

Conclusions:

- I. Some bags are red.
- II. All bags are red.
- A. Only I follows
- B. Only II follows
- C. Neither I nor II follows
- D. Both the conclusion

Answer: C

Explanation:



I. Some bags are red - It is not definite so false.

II. All bags are red - False.

2. Question below contains two conclusions followed by statements. Find from which of the statements given, both the conclusions follow.

Conclusions:

- I. Some Universities are not Hospitals
- II. All Schools being Colleges is a possibility

Statements:



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- A. Some Hospitals are Schools. All Schools are Universities. No University is College.
- B. All Hospitals are Schools. All Schools are Universities. Some Universities are Colleges
- C. All Hospitals are Schools. No School is University. Some Universities are Colleges
- D. Some Hospitals are Schools. Some Schools are Universities. All Universities are Colleges

Answer: C

Explanation:

From given statement I ---> Conclusion I and Conclusion II does not follows.

From given statement II---> Conclusion II follows but Conclusion I does not follows.

From given statement III---> Both Conclusions follow

From given statement IV---> Conclusion II follows but Conclusion I does not follows.

3. Statements: Some dogs are bats. Some bats are cats.

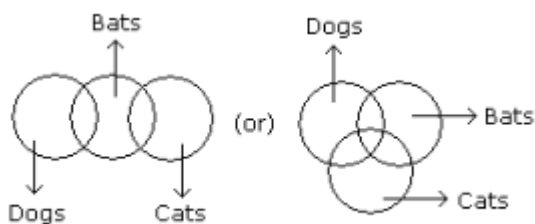
Conclusions:

- I. Some dogs are cats.
- II. Some cats are dogs.
- A. Only (1) conclusion follows
- B. Only (2) conclusion follows
- C. Either (1) or (2) follows
- D. Neither (1) nor (2) follows



Answer: D

Explanation:



Statements: All the trucks are flies. Some scooters are flies.

Conclusions:

- I. All the trucks are scooters.

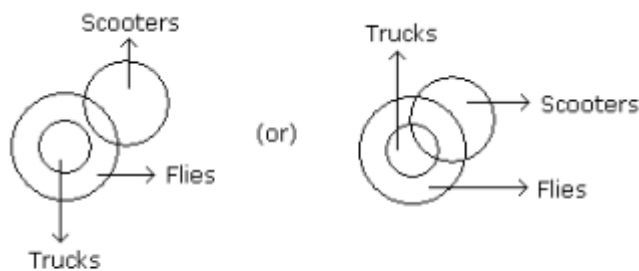


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- II. Some scooters are trucks.
- A. Only (1) conclusion follows
 - B. Only (2) conclusion follows
 - C. Either (1) or (2) follows
 - D. Neither (1) nor (2) follows

Answer: D

Explanation:



Neither (1) nor (2) follows.

TM

Directions (5 – 8): Study the following information carefully and answer the given questions.

When a word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of Input and rearrangement.

Input: news 61 below 77 after round 98 sound element 83 64

Step 1: 61 news below 77 after round 98 sound element 83 64

Step 2: 61 83 news below 77 after round 98 sound element 64

Step 3: 61 83 after news below 77 round 98 sound element 64

Step 4: 61 83 after element news below 77 round 98 sound 64

Step 5: 61 83 after element 77 news below round 98 sound 64

Step 6: 61 83 after element 77 below news round 98 sound 64

Step 7: 61 83 after element 77 below news round sound 98 64

Step 8: 61 83 after element 77 below news round sound 64 98

And step 8 is the last step of the above input. As per the rules followed in the above step, find out the appropriate step for the given output.



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INPUT: emit random 23 violence 19 speaker 39 expert 33 award 28

5. Which of the following would be at the ninth position from the left end in step 6?

- A. 33
- B. violence
- C. expert
- D. 39

Answer: B

Explanation:

Reference:

1. Arrange all prime numbers in increasing order
2. Then arrange the words that start with vowels in ascending order
3. Then arrange odd numbers in increasing order
4. After odd numbers, arrange remaining consonant in alphabetical order
5. At last, Even number is placed in increasing order

INPUT: emit random 23 violence 19 speaker 39 expert 33 award 28

Step 1: 19 emit random 23 violence speaker 39 expert 33 award 28

Step 2: 19 23 emit random violence speaker 39 expert 33 award 28

Step 3: 19 23 award emit random violence speaker 39 expert 33 28

Step 4: 19 23 award emit expert random violence speaker 39 33 28

Step 5: 19 23 award emit expert 33 random violence speaker 39 28

Step 6: 19 23 award emit expert 33 39 random violence speaker 28

Step 7: 19 23 award emit expert 33 39 random speaker violence 28

In step 6, violence is ninth from the left end.

6. Which element is exactly between the fifth from left and fifth from right in step 5?

- A. random
- B. 33
- C. expert



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D. violence

Answer: B

Explanation:

1. Arrange all prime numbers in increasing order
2. Then arrange the words that start with vowels in ascending order
3. Then arrange odd numbers in increasing order
4. After odd numbers, arrange remaining consonant in alphabetical order
5. At last, Even number is placed in increasing order

INPUT: emit random 23 violence 19 speaker 39 expert 33 award 28

Step 1: 19 emit random 23 violence speaker 39 expert 33 award 28

Step 2: 19 23 emit random violence speaker 39 expert 33 award 28 TM

Step 3: 19 23 award emit random violence speaker 39 expert 33 28

Step 4: 19 23 award emit expert random violence speaker 39 33 28

Step 5: 19 23 award emit expert 33 random violence speaker 39 28

Step 6: 19 23 award emit expert 33 39 random violence speaker 28

Step 7: 19 23 award emit expert 33 39 random speaker violence 28

In step 5, 33 is exactly between the fifth from left and fifth from right.

7. What is the position of "expert" in the step 6?

- A. Seventh from the left
- B. Sixth from the left
- C. Fifth from the left
- D. Sixth from the right

Answer: C

Explanation:

Reference:

1. Arrange all prime numbers in increasing order



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2. Then arrange the words that start with vowels in ascending order
3. Then arrange odd numbers in increasing order
4. After odd numbers, arrange remaining consonant in alphabetical order
5. At last, Even number is placed in increasing order

INPUT: emit random 23 violence 19 speaker 39 expert 33 award 28

Step 1: 19 emit random 23 violence speaker 39 expert 33 award 28

Step 2: 19 23 emit random violence speaker 39 expert 33 award 28

Step 3: 19 23 award emit random violence speaker 39 expert 33 28

Step 4: 19 23 award emit expert random violence speaker 39 33 28

Step 5: 19 23 award emit expert 33 random violence speaker 39 28

Step 6: 19 23 award emit expert 33 39 random violence speaker 28TM

Step 7: 19 23 award emit expert 33 39 random speaker violence 28

In step 6, "expertTM" is fifth from the left.

8. In step 7, what is the sum of first element from right end and sixth element from the left end?

- A. 67
- B. 61
- C. 72
- D. 62

Answer: B

Explanation:

Reference:

1. Arrange all prime numbers in increasing order
2. Then arrange the words that start with vowels in ascending order
3. Then arrange odd numbers in increasing order
4. After odd numbers, arrange remaining consonant in alphabetical order
5. At last, Even number is placed in increasing order



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INPUT: emit random 23 violence 19 speaker 39 expert 33 award 28

Step 1: 19 emit random 23 violence speaker 39 expert 33 award 28

Step 2: 19 23 emit random violence speaker 39 expert 33 award 28

Step 3: 19 23 award emit random violence speaker 39 expert 33 28

Step 4: 19 23 award emit expert random violence speaker 39 33 28

Step 5: 19 23 award emit expert 33 random violence speaker 39 28

Step 6: 19 23 award emit expert 33 39 random violence speaker 28

Step 7: 19 23 award emit expert 33 39 random speaker violence 28

In step 7, 61 is the sum of first element from right end and sixth element from the left end.

9. If 2 is added to the first digit of every even number and 1 is subtracted from the first digit of every odd number, what will be the difference between the 2nd largest and 2nd smallest number?

- A. 455
- B. 211
- C. 559
- D. 317

Answer: B

Explanation:

The given sequence:

657 412 568 413 672

The new sequence:

557 612 768 313 872

The sequence in ascending order:

313 557 612 768 872

The 2nd largest number = 768

The 2nd smallest number = 557

The required difference = $768 - 557 = 211$





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10. If all the digits in each of the numbers are arranged in descending order within the number, what will be the square of the sum of the digits of the largest number?

- A. 361
- B. 441
- C. 324
- D. 400

Answer: A

Explanation:

The given sequence:

657 412 568 413 672

Clearly, if the digits in each of the numbers are arranged in descending order, the largest unit digit among all will become the largest number after the rearrangement.

If we observe, we find that the largest unit digit we get in the number '568' and if we arrange its digits in descending order the number becomes: 865

Sum of its digits = $8 + 6 + 5 = 19$

Square of 19 = 361

11. If in each number, the first and the second digits are interchanged, which of the following numbers will come in the middle when arranged in ascending order?

- A. 534
- B. 762
- C. 341
- D. 567

Answer: D

Explanation:

The given sequence:

657 412 568 413 672

The new sequence:

567 142 658 143 762

The new sequence in ascending order:



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142 143 567 658 762

Clearly, the number 567 comes in the middle.

12. If 1 is subtracted from the last digit of each of the numbers, how many numbers will be divisible by 4?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: B

Explanation:

The given sequence:

657 412 568 413 672

The new sequence:

656 411 567 412 671

As we can see that the last two digits of only two numbers (656 and 412) are divisible by 4 and therefore we can say that there are only two numbers that are divisible by 4.

Ankush walked 50 m towards north then turned left and walked 68 m. He then turned to south and walked 22 m then he took a left turn and walked 44 m. After that he turned right and walked 18 m and finally he turned left to and walked 48 m. (Set 1 Q. 1)

13. What is shortest distance between starting and end point and in which direction is Ankush from the starting point?

- A. 30m, Northeast
- B. 25m, Northwest
- C. 26m, Southwest
- D. 26 m, Northeast

Answer: D

Explanation:

Ankush walked 50 m towards north then turned left and walked 68 m. He then turned to south and walked 22 m then he took a left turn and walked 44 m. After that he turned right and walked 18 m and finally he turned left to and walked 48 m.



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Using the above information we can draw a following figure:

Here, the shortest distance of Ankush's starting point and final point is 26 m, and Ankush is in northeast direction with respect to his starting point.

Ankush walked 50 m towards north then turned left and walked 68 m. He then turned to south and walked 22 m then he took a left turn and walked 44 m. After that he turned right and walked 18 m and finally he turned left to and walked 48 m.

14. What is the total distance travelled by Ankush in south direction during the entire journey?

- A. 22 m
- B. 36 m
- C. 40 m
- D. 48 m

Answer: C

Explanation:

Ankush walked 50 m towards north then turned left and walked 68 m. He then turned to south and walked 22 m then he took a left turn and walked 44 m. After that he turned right and walked 18 m and finally he turned left to and walked 48 m.

Using the above information we can draw a following figure:

Here, the total distance travelled by Ankush in south direction during the entire journey is $(22 + 18) \text{ m} = 40 \text{ m}$.

15. WEIGHTLIFTING

If from the above word all the vowels are to be dropped and the remaining letters are to be reversed and then the letters of newly formed word are arranged in alphabetic order from left to right then how many such letters will be there in the newly formed word which will not appear between the vowels?

- A. Two
- B. Three
- C. Four
- D. Six

Answer: C

Explanation:

The given word = WEIGHTLIFTING



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The vowels in the word 'WEIGHTLIFTING' are 'E' and 'I'.

After dropping the vowels from the above word and reversing the above letters, we get:

DTSGOUGMT

Arranging the letters of the above word in alphabetic order from left to right, we have = DGGMOSTTU

Here, the letters in the word 'DGGMOSTTU' which are not appearing between the vowels are D, G, G and M.

16. MAGNIFICENT

How many meaningful English words can be formed using first, third, fourth and eighth letter of the given word after rearranging all the letters in alphabetical order?

- A. None
- B. One
- C. Two
- D. Three

Answer: B

Explanation:

Given word - MAGNIFICENT

Alphabetical order-ACEFGIIMNNT

The first, third, fourth and eighth letters are A, E, F and M.

Meaningful English word-

FAME - state of being known to many people, popularity.

Thus only one word can be made.

Direction (17 - 20): (P, Q, R, S, T, U, V and W are sitting round the circle and are facing the centre:

P is second to the right of T who is the neighbour of R and V.

S is not the neighbour of P.

V is the neighbour of U.

Q is not between S and W. W is not between U and S.

17. Which two of the following are not neighbours?



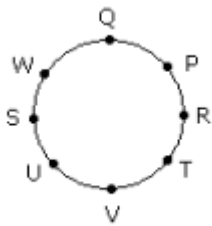


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- A. RV
- B. UV
- C. RP
- D. QW

Answer: A

Explanation:

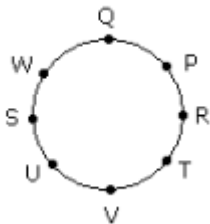


18. Which one is immediate right to the V?

- A. P
- B. U
- C. R
- D. T

Answer: D

Explanation:



T is immediate right to the V.

19. Which of the following is correct?

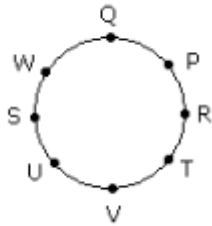
- A. P is to the immediate right of Q
- B. R is between U and V
- C. Q is to the immediate left of W
- D. U is between W and S

Answer: C

Explanation:



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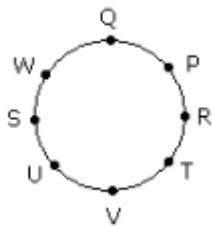


20. What is the position of S?

- A. Between U and V
- B. Second to the right of P
- C. To the immediate right of W
- D. Data inadequate.

Answer: C

Explanation:



21. Which word does NOT belong with the others?

- A. index
- B. glossary
- C. chapter
- D. book

Answer: D

Explanation: Book. Rest are all parts of a book.

22. Which word is the odd man out?

- A. trivial
- B. unimportant
- C. important
- D. insignificant

Answer: C



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Explanation: Remaining are synonyms of each other.

23. Which word does NOT belong with the others?

- A. wing
- B. fin
- C. beak
- D. rudder

Answer: C

Explanation: Rest are parts of an aero plane.

24. Which word is the odd man out?

- A. hate
- B. fondness
- C. liking
- D. attachment

Answer: A

Explanation: Rest are positive emotions.

Direction (24 - 28): The following table shows the number of boys and girls of different schools that have participated in a scholarship test over five years.

School Year	A		B		C		D	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
2001	300	80	280	60	320	84	450	70
2002	320	70	300	80	424	100	320	60
2003	340	90	420	120	230	70	360	90
2004	370	100	480	140	360	120	500	120

24. How many girls more participated in year 2004 as compared to 2003 for all schools taken together?

- A. 110
- B. 370
- C. 480
- D. 210

Answer: A

Explanation: Number of girls participating in 2004

$$= 100 + 140 + 120 + 120 = 480$$



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Number of girls participants in 2003

$$= 90 + 120 + 70 + 90 = 370$$

$$\text{Required number} = 480 - 370 = 110$$

25. The ratio of boys: girls for school B over the years 2001-2004 is

- A. 17:34
- B. 14:37
- C. 37:10
- D. 34:17

Answer: C

Explanation:

Number of boys participants for school B = $280 + 300 + 420 + 480 = 1480$

Number of girls participants for school B = $60 + 80 + 120 + 140 = 400$ TM

$$\text{Required ratio} = 1480: 400 = 37:10$$

26. The total number of participants in year 2003 is

- A. 2000
- B. 1830
- C. 1720
- D. 1640

Answer: C

Explanation:

Number of participation in 2003

$$= (340 + 90) + (420 + 120) + (230 + 70) + (360 + 90)$$

$$= 1720$$

26. In year 2004 the number of participating girls is what percent of number of participating boys?

- A. 17:56
- B. 56:17
- C. 57:16
- D. 16:57

Answer: D



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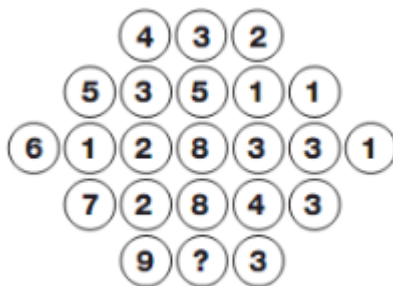
Explanation:

Number of girls participants in 2004 = $100 + 140 + 120 + 120 = 480$

Number of boys participants in 2004 = $370 + 480 + 360 + 500 = 1710$

Required ratio = $480 : 1710 = 16 : 57$

27. What number comes inside the circle?

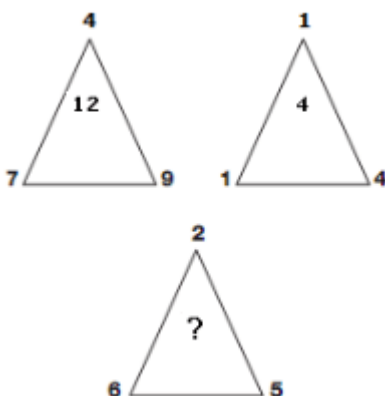


- A. 9
- B. 4
- C. 5
- D. 6

Answer: D

Explanation: Looking at the diagram in rows, the central circle equals half the sum of the numbers in the other circles to the left and right of the centre

28. Which number replace the questins mark



- A. 9
- B. 8
- C. 4



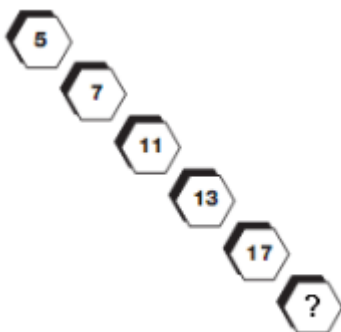
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D. 1

Answer: D

Explanation: The number at the centre of each triangle equals the sum of the lower two numbers minus the top number.

29. Which number completes the puzzle?



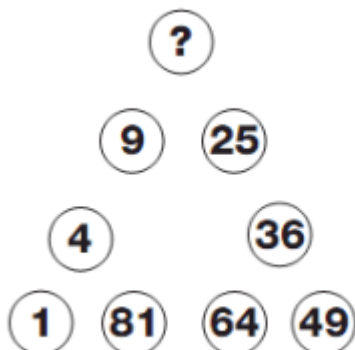
- A. 23
- B. 9
- C. 19
- D. 31



Answer: C

Explanation: As you move diagonally down, numbers follow the sequence of Prime Numbers.

30. Which number replace the questins mark



- A. 16
- B. 37



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- C. 55
- D. 2

Answer: A

Explanation: Starting bottom left and moving clockwise around the triangle, numbers follow the sequence of Square Numbers.

31. In a certain code 'CERTAIN' is coded as 'BFQUZJM'. How is 'MUNDANE' coded in that code?

- A. LVMEZOD
- B. NTCOMBF
- C. NTOCNBF
- D. LTMCZOF

Answer: A

Explanation: Each letter moves -1, +1 alternately. So, M - 1 = L, U + 1 = V and so on. So code for MUNDANE will be LVMEZOD

32. In a certain code 'SEQUENCE' is coded as 'FDOFVRFT. How is 'CHILDREN' coded in that code?

- A. OFESJMID
- B. OFSEMJID
- C. OFSEJIMD
- D. OFSEJMID

Answer: B

Explanation: Reverse the word and +1 to each letter. The reverse of CHILDREN is NERDLIHC. add 1 to each letter. Therefore, the code of CHILDREN becomes OFSEMJID.

33. If the letters of the word 'CYCLINDER' are arranged alphabetically, then which letter would be farthest from the first letter of word?

- A. N
- B. E
- C. Y
- D. R

Answer: C

Explanation: Last letter is 'Y'.

34. Pointing to a lady, a man said, "The son of her only brother is the brother of my wife." How is the lady related to the man?



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- A. Mother's sister
- B. Grandmother
- C. Mother-in-law
- D. Sister of father-in-law

Answer: D

Explanation: Brother of my wife — my brother-in-law; Son of lady's brother is the brother-in-law of the man.

So lady's brother is man's father-in-law

i.e., the lady is the sister of man's father-in-law.

35. A woman introduces a man as the son of the brother of her mother. How is the man, related to the woman?

- A. Nephew
- B. Son
- C. Cousin
- D. Uncle to Grandson

Answer: C

Explanation: Brother of mother — Uncle: Uncle's son — Cousin

36. In a family, there are six members A, B, C, D, E and F.

A and B are a married couple, A being the male member. D is the only son of C, who is the brother of A. E is the sister of D. B is the daughter-in-law of F, whose husband has died. How is E related to C ?

- A. Sister
- B. Daughter
- C. Cousin
- D. Mother

Answer: B

Explanation: A is a male and married to B. So, A is the husband and B is the wife. C is the brother of A. D is the son of C. E. who is the sister of D will be the daughter of C. B is the daughter-in-law of F whose husband has died means F is the mother of A.

Clearly. E is the daughter of C

37. In a certain code '13' means 'stop smoking' and '59' means 'injurious habit'. What is the meaning of '9' and '5' respectively in that code?



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- I. '157' means 'stop bad habit'.
- II. '839' means 'smoking is injurious'.
 - A. if the data in statement I alone are sufficient to answer the question;
 - B. if the data in statement II alone are sufficient answer the question;
 - C. if the data either in I or II alone are sufficient to answer the question;
 - D. if the data even in both the statements together are not sufficient to answer the question;

Answer: B

Explanation: '59' means 'injurious habit' and '157' means 'stop bad habit' (from I). Thus, the common code number '5' stands for common word 'habit'. So, '9' represents 'injurious'. Hence, I is sufficient. Also, '59' means 'injurious habit' and '839' means 'smoking is injurious'. Thus, the common code number '9' stands for common word 'injurious'. So, '5' represents 'habit'. Thus, II is also sufficient.

38. When is Manohar's birthday this year?

- I. It is between January 13 and 15, January 13 being Wednesday.
- II. It is not on Friday.
 - A. if the data in statement I alone are sufficient to answer the question;
 - B. if the data in statement II alone are sufficient answer the question;
 - C. if the data either in I or II alone are sufficient to answer the question;
 - D. if the data even in both the statements together are not sufficient to answer the question;

Answer: A

Explanation: From Statement I, we conclude that Manohar's birthday is on January 14, which is Thursday, this year. So, only I is needed.

39. Statements: M # K, K % P, P \$ R

Conclusions:

- I. R \$ M
- II. P % M
 - A. Only I is true
 - B. Only II is true
 - C. Either I or II true
 - D. Neither I nor II is true

Answer: D

Explanation:

\$ → <

→ =



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% \rightarrow >

Statements: M#K, K%P, P\$R

M = K > P < R

Conclusions:

I. R\$M \rightarrow R

II. P%M \rightarrow P > M (False)

Hence, neither conclusion I nor II is definitely true.

40. Statements: N \$ B, B # D, D % C

Conclusions:

I. D \$ N

II. B % C

A. Only I is true

B. Only II is true

C. Either I or II true

D. Neither I nor II is true

Answer: B

Explanation:

\$ \rightarrow <

\rightarrow =

% \rightarrow >

Statements: N\$B, B#D, D%C

N < B = D > C

Conclusions:

I. D\$N \rightarrow D < N (False)

II. B%C \rightarrow B > C (True)

Hence, only conclusion II is definitely true.





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