

Data Sufficiency

In each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and Give answer

- (A) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question
- (B) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question
- (C) If the data either in statement I alone or in statement II alone are sufficient to answer the question
- (D) If the data given in both statements I and II together are not sufficient to answer the question and
- (E) If the data in both statements I and II together are necessary to answer the question.

❖ Questions :-

1. **Question:** In which year was Rahul born?

Statements:-

- I. Rahul at present is 25 years younger to his mother.
- II. Rahul's brother, who was born in 1964, is 35 years younger to his mother.

- A. I alone is sufficient while II alone is not sufficient
- B. II alone is sufficient while I alone is not sufficient
- C. Either I or II is sufficient
- D. Neither I nor II is sufficient
- E. Both I and II are sufficient

Answer: Option E

Explanation:

From both I and II, we find that Rahul is $(35 - 25) = 10$ years older than his brother, who was born in 1964. So, Rahul was born in 1954.

2. Question: How many children does M have ?

Statements:-

- I. H is the only daughter of X who is wife of M.
 - II. K and J are brothers of M.
- A. I alone is sufficient while II alone is not sufficient
 - B. II alone is sufficient while I alone is not sufficient
 - C. Either I or II is sufficient
 - D. Neither I nor II is sufficient
 - E. Both I and II are sufficient

Answer: Option D

Explanation:

From I, we conclude that H is the only daughter of M. But this does not indicate that M has no son. The information given in II is immaterial.

3. Question: How much was the total sale of the company ?

Statements:

- I. The company sold 8000 units of product A each costing Rs. 25.
 - II. This company has no other product line.
- A. I alone is sufficient while II alone is not sufficient
 - B. II alone is sufficient while I alone is not sufficient
 - C. Either I or II is sufficient
 - D. Neither I nor II is sufficient

E. Both I and II are sufficient

Answer: Option E

Explanation:

From I, total sale of product A = Rs. $(8000 \times 25) = \text{Rs. } 200000$.

From II, we know that the company deals only in product A.

This implies that sale of product A is the total sale of the company, which is Rs. 200000.

4. Question: The last Sunday of March, 2006 fell on which date ?

Statements:

- I. The first Sunday of that month fell on 5th.
 - II. The last day of that month was Friday.
- A. I alone is sufficient while II alone is not sufficient
 - B. II alone is sufficient while I alone is not sufficient
 - C. Either I or II is sufficient
 - D. Neither I nor II is sufficient
 - E. Both I and II are sufficient

Answer: Option C

Explanation:

From I, we conclude that 5th, 12th, 19th and 26th of March, 2006 were Sundays.

So, the last Sunday fell on 26th.

From II, we conclude that 31st March, 2006 was Friday. Thus, 26th March, 2006 was the last Sunday of the month.

5. Question: What is the code for 'sky' in the code language ?

Statements:

- I. In the code language, 'sky is clear' is written as 'de ra fa'.
- II. In the same code language, 'make it clear' is written as 'de ga jo'.

- A. I alone is sufficient while II alone is not sufficient
- B. II alone is sufficient while I alone is not sufficient
- C. Either I or II is sufficient
- D. Neither I nor II is sufficient
- E. Both I and II are sufficient

Answer: Option D

Explanation:

The only word common to I and II is 'clear' and as such, only the code for 'clear' can be ascertained from the given information.

6. Question: On which date of the month was Anjali born in February 2004 ?

Statements:

- I. Anjali was born on an even date of the month.
- II. Anjali's birth date was a prime number.

- A. I alone is sufficient while II alone is not sufficient
- B. II alone is sufficient while I alone is not sufficient
- C. Either I or II is sufficient
- D. Neither I nor II is sufficient
- E. Both I and II are sufficient

Answer: Option E

Explanation:

From I and II, we conclude that Anjali was born in February 2004 on a date which is an even prime number. Since the only even prime number is 2, so Anjali was born on 2nd February, 2004.

7. Question: How many children are there in the row of children facing North ?

Statements:

- I. Vishakha who is fifth from the left end is eighth to the left of Ashish who is twelfth from the right end.
- II. Rohit is fifth to the left of Nisha who is seventh from the right end and eighteenth from the left end.

- A. I alone is sufficient while II alone is not sufficient
- B. II alone is sufficient while I alone is not sufficient
- C. Either I or II is sufficient
- D. Neither I nor II is sufficient
- E. Both I and II are sufficient

Answer: Option C

Explanation:

Since 8th to the left of 12th from the right is 20th from the right, so from I, we know that Vishakha is 5th from left and 20th from right i.e. there are 4 children to the left and 19 to the right of Vishakha. So, there are $(4 + 1 + 19)$ i.e. 24 children in the row.

From II, Nisha is 7th from right and 18th from left end of the row.

So, there are $(6 + 1 + 17) = 24$ children in the row.

8. Question: How many pages of book X did Robert read on Sunday ?

Statements:

- I. The book has 300 pages out of which two-thirds were read by him before Sunday.
- II. Robert read the last 40 pages of the book on the morning of Monday.

- A. I alone is sufficient while II alone is not sufficient
- B. II alone is sufficient while I alone is not sufficient
- C. Either I or II is sufficient
- D. Neither I nor II is sufficient
- E. Both I and II are sufficient

Answer: Option E

Explanation:

From I and II, we find that Robert read $(300 \times \frac{2}{3})$ i.e. 200 pages before Sunday and the last 40 pages on Monday.

This means that he read $[300 - (200 + 40)]$ i.e. 60 pages on Sunday.

9. Question: How many students in a class play football ?

Statements:

- I. Only boys play football.
- II. There are forty boys and thirty girls in the class.

- A. I alone is sufficient while II alone is not sufficient
- B. II alone is sufficient while I alone is not sufficient
- C. Either I or II is sufficient
- D. Neither I nor II is sufficient
- E. Both I and II are sufficient

Answer: Option **D**

Explanation:

It is not mentioned whether all the boys or a proportion of them play football.

10. Question: Can Ritesh retire from office X in January 2006, with full pension benefits ?

Statements:

- I. Ritesh will complete 30 years of service in office X in April 2000 and desires to retire.
- II. As per office X rules, an employee has to complete minimum 30 years of service and attain age of 60. Ritesh has 3 years to complete age of 60.

- A. I alone is sufficient while II alone is not sufficient
- B. II alone is sufficient while I alone is not sufficient
- C. Either I or II is sufficient
- D. Neither I nor II is sufficient
- E. Both I and II are sufficient

Answer: Option **E**

Explanation:

Clearly, the facts given in I and II contain two conditions to be fulfilled to get retirement and also indicate that Ritesh fulfills only one condition out of them.

Universe of Thoughts

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