DATA SUFFICIENCY

- In this, each of the questions 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.

Question

- **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.

Solution

- **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.

Question

- **Question:** What will be the total weight of 10 poles, each of the same weight ?
- **Statements:**

I One-fourth of the weight of each pole is 5 kg.

II The total weight of three poles is 20 kilograms more than the total weight of two poles.

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.

Solution

- **Answer:** Option **C**
- **Explanation:**
- From I, we conclude that weight of each pole = (4x5) kg = 20 kg.

  So, total weight of 10 poles = (20 x 10) kg = 200 kg.
- From II, we conclude that:

  Weight of each pole = (weight of 3 poles) - (weight of 2 poles) = 20 kg.

  So, total weight of 10 pojes = (20 x 10) kg = 200 kg.

Question

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.

Solution

- **Answer:** Option **E**
- **Explanation:**
- From I, total sale of product A = Rs. (8000 x 25) = 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.

Question

- **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

Solution

- **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.

Question

- **Question:** How is X related to Y ?
- **Statements:**

I Y and Z are children of D who is wife of X.

II R's sister X is married to Ys father.

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

Solution

- **Answer:** Option **C**
- **Explanation:**
- From I, we conclude that Y is the child of D who is wife of X i.e. X is Y's father.
- From II, X is married to Y's father. This implies that X is Y's mother.

Question

- **Question:** How many children are there between P and Q in a row of children ?
- **Statements:**
- P is fifteenth from the left in the row.
- Q is exactly in the middle and there are ten children towards his right.

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

Solution

- **Answer:** Option **E**
- **Explanation:**
- From II, Q being in the middle, there are 10 children to his right as well as to his left. So, Q is 11th from the left. From I, P is 15th from the left.
- Thus, from both I and II, we conclude that there are 3 children between P and Q.

Question

- **Question:** How is J related to P ?
- **Statements:**
- M is brother of P and T is sister of P.
- P's mother is married to J's husband who has one son and two daughters.

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

Solution

- **Answer:** Option **B**
- **Explanation:**
- From II, we know that P's mother is married to J's husband, which means that J is P's mother.

Question

- **Question:** Among T, V, B, E and C, who is the third from the top when arranged in the descending order of their weights ?
- **Statements:**
- B is heavier than T and C and is less heavier than V who is not the heaviest.
- C is heavier than only T.

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

Solution

- **Answer:** Option **A**
- **Explanation:**
- From I, we have: B > T, B > C, V > B. Thus, V is heavier than each one of B, T and C. But V is not the heaviest. So, E is the heaviest.
- Thus, we have the order. E>V>B>T>C or E>V>B>C>T. Clearly, B is third from the top.

Question

- **Question:** Which word in the code language means 'flower' ?
- **Statements:**
- 'de fu la pane' means 'rose flower is beautiful' and 'la quiz' means 'beautiful tree'.
- 'de la chin' means 'red rose flower' and 'pa chin' means 'red tea'.

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

Solution

- **Answer:** Option **D**
- **Explanation:**
- From the two statements given in I, the code for the only common word 'beautiful' can be determined.
- From the two statements given in II, the code for the only common word 'red' can be determined.
- In I and II, the common words are 'rose and 'flower' and the common code words are 'de' and 'la'. So, the code for 'flower' is either 'de' or 'la'.

Question

- **Question:** What is Gagan's age ?
- **Statements:**
- Gagan, Vimal and Kunal are all of the same age.
- Total age of Vimal, Kunal and Anil is 32 years and Anil is as old as Vimal and Kunal together.

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

Solution

- **Answer:** Option **E**
- **Explanation:**
- As given in I and II, we have: G = V = K, V + K + A = 32 and A = V + K.
- Putting V + K = A in V + K + A = 32, we have: 2A = 32 or A = 16.
- Thus, V + K = 16 and V = K. So, V = K = 8. Thus, G = 8.

THANK YOU