



**SNS COLLEGE OF TECHNOLOGY**  
**An Autonomous Institution**  
**Coimbatore-35**



Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A++’ Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**19GET276 – VQAR II**

II YEAR/ IV SEMESTER

**UNIT 3 – VERBAL REASONING II**

**TOPIC – Data sufficiency**



## Data sufficiency



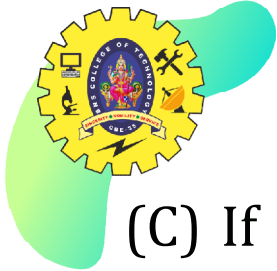
### Directions to Solve

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



## Data sufficiency



(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.





## Data sufficiency



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

**Statements:**

1. Rahul at present is 25 years younger to his mother.
2. 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





## Data sufficiency



**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.





## Data sufficiency



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

**Statements:**

1. One-fourth of the weight of each pole is 5 kg.
2. 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





## Data sufficiency



**Answer:** Option ©

**Explanation:**

From I, we conclude that weight of each pole =  $(4 \times 5)$  kg = 20 kg.

So, total weight of 10 poles =  $(20 \times 10)$  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 poles =  $(20 \times 10)$  kg = 200 kg.



## Data sufficiency



3. **Question:** How many children does M have ?

**Statements:**

H is the only daughter of X who is wife of M.

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







## Data sufficiency



**Answer:** Option **(D)**

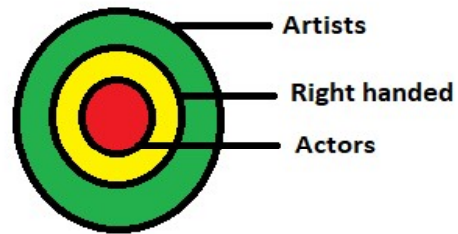
**Explanation:**

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.

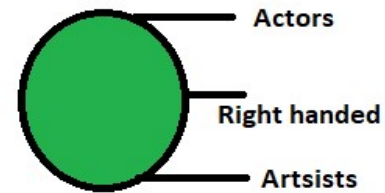




# Data sufficiency



Case 1: Non overlapping



Case 2: Overlapping





## Data sufficiency



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

**Statements:**

The company sold 8000 units of product A each costing Rs. 25.

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





## SYLLOGISMS



**Answer:** Option **Ⓔ**

**Explanation:**

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



## Data sufficiency



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

**Statements:**

The first Sunday of that month fell on 5th.

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





## Data sufficiency



**Answer:** Option Ⓒ

**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.



## Data sufficiency



Example 3:

Major premise: All engineers are innovative.

Minor premise: All students are engineers.

Conclusions:

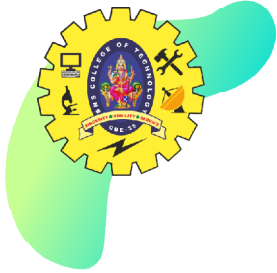
All innovative are students

All students are innovative

No innovative are students

No engineers are students





**THANK YOU**

