



## DATA SUFFICIENCY

### What is Data Sufficiency?

Data Sufficiency is to check and test the given set of information, whether it is enough to answer a question or not. Data Sufficiency-type questions are designed to test the candidate's ability to relate given information to reach a conclusion. Moreover, the data sufficiency has wider attributes to test the candidate. On one hand, it may have problems from any of the topics of reasoning or **quantitative aptitude** and on the other hand, it can test a candidate's analytical skills.

Generally, a question on any of the topics such as sequence, ranking, puzzle test, coding-decoding, blood relation, and so on is followed by two, three or any number of statements. These statements may contain information to arrive at the answer. Candidate's need to decide which of the statement(s) is/are sufficient to answer the given questions.

### Types of Data Sufficiency

As of now we know what consists of the questions related to the Data Sufficiency reasoning section. Let us see the various types of Data Sufficiency one by one from below.

#### 1. Blood Relation

In this type of data sufficiency, **relation between 2 people** will be asked and candidates need to find the statement(s) in which data is sufficient to find the relation or the correct answer.

#### 2. Order & Ranking

In this type of data sufficiency, **data on order of people or their ranking** will be provided and candidates will need to find statement(s) in which data is sufficient to find the correct answer.

#### 3. Direction & Distance

In this type of data sufficiency, **data on direction of people or points and the distance** traveled by a person or distance between the points will be



given and candidates will need to find the statement(s) in which data is sufficient to find the direction or distance between the points.

#### **4. Coding Decoding**

In this type of data sufficiency, **words or letters will be coded** and candidates will need to find the statement(s) in which data is sufficient to find the logic applied to decide the code.

#### **5. Seating Arrangement**

In this type of data sufficiency, **data on arrangement of people** will be provided and candidates will need to find the statement(s) in which data is sufficient to find the correct answer. Seating Arrangements are of two types such as Linear Arrangement and Circular Arrangement. In Linear Arrangement, people will be arranged or seated in one or multiple rows. In Circular Arrangement, people will be arranged or seated around a circular table.

#### **6. Floor Puzzle**

In this type of data sufficiency, **data on people living on different floors** of either same or different buildings will be given and candidates will need to find the statement(s) in which data is sufficient to find the correct answer.

#### **7. Scheduling**

In this type of data sufficiency, **data based on months, years or date** will be given and candidates need to decide whether the data provided in the statements is sufficient or not.

#### **How to Solve Question-Based on Data Sufficiency – Know all Tips and Tricks**

Candidates can find various tips and tricks from below for solving the questions related to the Data Sufficiency reasoning section.

**Tip # 1:** In Data Sufficiency, candidates only need to check whether the data provided is sufficient or not to find the answer. Therefore, do not waste time in finding the final answer.

**Tip # 2:** Data Sufficiency problems appear to be difficult at first because of the complicated directions, but once you get familiar with these



directions, you will find these problems easy to solve. Never assume anything by yourself.

**Tip # 3:** Always read the question carefully and identify the specific information required to answer the question. Read the statements carefully and understand them and then finally analyze the statements and try to eliminate some answer choices. This will help you increase your chances of gaining points by guessing the answer.

### **Data Sufficiency Sample Questions**

**Question 1:** In an innings of a T20 international match six batsman, Raina, Yuvraj, Kohli, Dhoni, Rahane and Dhawan have scored different number of runs. How many batsmen have scored more runs than Dhoni?

- (I) Rahane has scored 7 runs less than Yuvraj and 10 runs more than Raina.
- (II) Kohli has scored 56 runs, which is 8 runs less than Dhoni.
- (III) Raina has scored 34, which is 1 run less than Dhawan.

**Solution:** If we analyze the given statements then we get,

- (a) Raina has scored 34, which is 1 run less than Dhawan, which means Dhawan has scored 35.
- (b) Kohli has scored 56 runs, which is 8 runs less than Dhoni, which means the score of Dhoni is 64.
- (c) Rahane has scored 7 runs less than Yuvraj and 10 runs more than Raina, which means Rahane scored  $10+34 = 44$  and Yuvraj scored  $44+7 = 51$ .

As we can see, no one has scored more than Dhoni and all the statements were required to get the final answer.

**Question 2:** If City A and City E are in a straight line and the distance between A and C is the equal in distance between F and E then find out City A is in which direction with respect to City E.

- (I) A is the north of F, which is to the west of C



(II) A is to the north west of C

(III) E is to the north west of F

**Solution:** If we draw all the directions mentioned in the statements we can say very easily that Only the statement I and III are sufficient to get the final answer.

**Question 3:** In a certain code, “14” means “stop whispering” and “68” means “its irritating”. What do 8 and 6 mean respectively in that code?

(I) 167 means “stop irritating me”

(II) 4982 means “it’s sound like whispering”

**Solution:**

**Given:**

14 = stop whispering

68 = its irritating

Now in statement 1, 167 “stop irritating me”, where 1 is stop, 6 is “irritating”, so 6 means “irritating” and 8 means “it’s” we can easily find the final answer from statement I.

Now in statement 2, 4982 means “it’s sound like whispering” so 4 means “whispering”, and 8 means “it’s” so we can say that 6 means “irritating” and 8 means “it’s”. We can also very easily find the final answer from Statement II.

Therefore, both Statement I and II are sufficient.

**Question 4:** How is Vivaan related to Yeshna?

(I) Vivaan is the only son of Yeshna’s mother-in-law

(II) Neelam is Vivian’s only sister.

**Solution:** From statement I, we find that Vivaan is Yeshna’s husband, while from statement II, we don’t get any required detail. So, Statement I alone is sufficient to answer the question.



**Question 5:** Who is R's partner is a game of cards involving players P, Q, R and S?

(I) P is sitting opposite to S

(II) Q is sitting right of P and left of S

**Solution:** It is clear from both of the given statements that P is sitting opposite to S or P is the partner of S.