# Data Sufficiency

Chapter Rating: 4*

**No. of questions asked in CSAT over the years**

| 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 3 | 6 | 5 | 20 |

**EXERCISE**

Q1. Consider the Question and two Statements given below: **(CSAT 2022)**

Question: Is x an integer?

**S1.** x/3 is not an integer.

**S2.** Statement-2: 3x is an integer.

**Q2.** Consider the Question and two Statements given below in respect of three cities P, Q and R in a State.

Question: How far is city P from city Q?

S1. City Q is 18 km from city R.

S2. City P is 43 km from city R.**(CSAT 2022)**

**Q3.** Consider the question and two Statements given below:

Question: Is Z brother of X?

S1. X is a brother of Y and Y is a brother of Z.

S2. X, Y and Z are siblings. **(CSAT 2022)**

**Q4.** Six persons A, B, C D, E and F are sitting equidistant from each other around a circular table (facing the center of the table).

Consider the question and two Statements given below:

Question: Who is sitting on the immediate left of A?

S1. B is sitting opposite to C and D is sitting opposite to E.

S2. F is sitting on the immediate left of B. **(CSAT 2022)**

**Q5.** Consider the Question and two statements given below:

Question: What is the age of Manisha?

S1. Manisha is 24 years younger than her mother.

S2. 5 years later, the ages of Manisha and her mother will be in the ratio 3 : 5.**(CSAT 2022)**

**Q6.** Six lectures A, B, C, D, E and F, each of one hour duration, are scheduled between 8:00 a.m. and 2:00 p.m. Consider the question and two statements given below: **(CSAT 2022)**

Question: Which lecture is in the third period?

S1. Lecture F is preceded by A and followed by C.

S2. There is no lecture after lecture B.

**Q7.** Consider two statements S1 and S2 followed by a question:

S1. p and q both are prime numbers.

S2. p + q is an odd integer.

Question: Is p × q an odd integer? **(CSAT 2019)**

**Q8.** Consider two statements and a question **(CSAT 2021)**

S1. Priya is 4 ranks blow Seema and is 31st from the bottom.

S2. Ena is 2 ranks above Seema and is 37th from the bottom.

Question: what is Seema's rank from the top in the class of 40 students?

**Q9.** Consider two statements and a question: **(CSAT 2021)**

S1. Each of A and D is heavier than each of B, E and F, but none of them is the heaviest.

S2. A is heavier than D, which is lighter than C.

Question: who is the heaviest among A, B, C, D and E?

**Q10.** Consider two statements and a question:

S1. The last day of the month is a Wednesday.

S2. The third Saturday of the month was the 17th day.

Question: what day is the 14th of the given month? **(CSAT 2021)**

**Q11.** Two statements S1 and S2 are given below followed by a Question:**(CSAT 2020)**

S1. There are not more than two figures on any page of a 51-page book.

S2. There is at least one figure on every page.

Question: Are there more than 100 figures in that book?

**Q12.** Two Statements S1 and S2 are given below with regard to four numbers P, Q, R and S followed by a question: **(CSAT 2020)**

S1. R is greater than P as well as Q.

S2. S is not the largest one.

Among four numbers P, Q, R and S which one is the largest?

**Q13.** Two Statements S1 and S2 are given below followed by a Question: **(CSAT 2020)**

S1. n is a prime number.

S2. n leaves a remainder of 1 when divided by 4.

If n is a unique natural number between 10 and 20, then what is n?

**Q14.** Two Statements S1 and S2 are given below with regard to two numbers followed by a Question: **(CSAT 2020)**

S1. Their product is 21.

S2. Their sum is 10.

Question: What are the two numbers?

**Q15.** Two Statements are given followed by two Conclusions: **(CSAT 2020)**

Statements:

S1: All numbers are divisible by 2.

S2: All numbers are divisible by 3.

Conclusion-I

All numbers are divisible by 6.

Conclusion-II

All numbers are divisible by 4.

Which of the above Conclusions logically follows/follow from the two given Statements?

(a) Only Conclusion-I

(b) Only Conclusion-II

(c) Neither Conclusion-I nor conclusion-II

(d) Both Conclusions-I and Conclusion-II

**Q16.** Question : Is p greater than $q$ ?
Statement-1 : $p \times q$ is greater than zero.
Statement-2: $p^2$ is greater than $q^2$. Which one of the following is correct in respect of the above Question and the Statements? **(CSAT 2023)**

(a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
(b) The Question can be answered by using either Statement alone.
(c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
(d) The Question cannot be answered even by using both the Statements together.

**Q17.** Is (p + q – r ) greater than ( p-q+r), where p,q and r are integers? **(CSAT 2023)**

Statement-1: ( p-q ) is positive
Statement-2: $(p - r)$ is negative.

Which one of the following is correct in respect of the above Question and the Statements ?

(a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
(b) The Question can be answered by using either Statement alone.
(c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
(d) The Question cannot be answered even by using both the Statements together.

**Q18.** In a party, 75 persons took tea, 60 persons took coffee and 15 persons took both tea and coffee. No one taking milk takes tea. Each person takes at least one drink. **(CSAT 2023)**

Question: How many persons attended the party?

Statement-1: 50 persons took milk.

Statement-2 : Number of persons who attended the party is five times the number of persons who took milk only.

Which one of the following is correct in respect of the above Question and the Statements ?

(a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.

(b) The Question can be answered by using either Statement alone.

(c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.

(d) The Question cannot be answered even by using both the Statements together.

**Q19.** Consider a 3-digit number. **(CSAT 2023)**

Question: What is the number?

Statement-1: The sum of the digits of the number is equal to the product of the digits.

Statement-2: The number is divisible by the sum of the digits of the number.

Which one of the following is correct in respect of the above Question and the Statements ?

(a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.

(b) The Question can be answered by using either Statement alone.

(c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.

(d) The Question cannot be answered even by using both the Statements together.

**Q20.**For five children with ages $a < b < c < d < e$; any two successive ages differ by 2 years. Question: What is the age of the youngest child ?**(CSAT 2023)**

Statement-1: The age of the eldest is 3 times the youngest.

Statement-2 : The average age of the children is 8 years. Which one of the following is correct in respect of the above Question and the Statements ?

(a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.

(b) The Question can be answered by using either Statement alone.

(c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.

(d) The Question cannot be answered even by using both the Statements together.