

DATA SUFFICIENCY

Directions : 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 :

- (1) 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 questions.
 - (2) 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.
 - (3) if the data in statement I alone or in statement II alone are not sufficient to answer the question.
 - (4) if the data in both the statements I and II are not sufficient to answer the question.
 - (5) if the data in both the statements I and II together are necessary to answer the question.
1. In how many days will five women complete a work ?
 - I. Two women, five boys and three men together complete the work in six days.
 - II. Eight women complete the same work in twelve days.
 2. What will be Shyam's age after 6 years ?
 - I. The ratio between Ram's and Shyam's present age is 4 : 3 respectively.
 - II. Ram is seven years older than Shyam.
 3. What is the average speed of a car ?
 - I. The average speed of the car is Five times the average speed of a truck whereas the average speed of a bus is 45 km/hr.
 - II. The average speed of the truck is half the average speed of a train whereas the average speed of a jeep is 40 km/hr.
 4. By selling a product at 20% profit, how much profit was earned ?
 - I. The difference between cost and selling price is Rs. 40/-.
 - II. The selling price is 120% of the cost price.
 5. A train crosses another train running in the opposite direction in x seconds. What is the speed of the train?
 - I. Both the trains have the same length and running at the same speed.
 - II. One train crosses a pole in 5 seconds.

Directions : In each of these questions, one question is given followed by data in three statements I, II and III. You have to study the question and the data in statements and decide the question can be answered with data in which of the statements and mark your answer accordingly.

6. What is the rate of interest p.c.p.a. ?
Statements:
 - I. Difference between the compound interest and simple interest earned in two years on the amount invested is Rs. 100/-.
 - II. The amount becomes Rs. 19,500/- in three years on simple interest.
 - III. Simple interest accrued in two years on the same amount at the same rate of interest is Rs. 3,000/-.
 - (1) Only I and II
 - (2) Only I and III
 - (3) Only II and III
 - (4) Only I and either II or III
 - (5) None of these
7. What is the speed of the train in km/hr ?
Statements :
 - I. The train crosses an x m long platform in n seconds.
 - II. Length of the train is 'y' m.
 - III. The train crosses a signal pole in 'm' seconds.
 - (1) Any two of the three
 - (2) Only II and III
 - (3) Only I and III
 - (4) All I, II and III
 - (5) Question cannot be answered even with information in all three statements
8. How many students passed in first class ?
Statements :
 - I. 85% of the students who appeared in examination have passed either in first class or in second class or in pass class.
 - II. 750 students have passed in second class.
 - III. Number of students passed in pass class is 28% of those passed in second class.
 - (1) All I, II and III
 - (2) Only I and III
 - (3) Only II and III
 - (4) Question cannot be answered even with information in all three statements
 - (5) None of these
9. What is the amount invested in Scheme 'B'
Statements :
 - I. The amounts invested in Schemes 'A' and 'B' are in the ratio of 2 : 3 respectively.
 - II. Amount invested in Scheme 'A' is 40% of the total amount invested.
 - III. Amount invested in Scheme 'A' is Rs. 45,000/-
 - (1) Only I and II
 - (2) Only I and III
 - (3) Only 'II and III
 - (4) All I, II and III
 - (5) Only III and either I or II

10. What is the cost of flooring the rectangular hall ?

Statements :

- I. Length of the rectangle is 6 m.
- II. Breadth of the rectangle is two-third of its length.
- III. Cost of flooring the area of 100 cm² is Rs. 45/-.

- (1) Only I and III
- (2) Only II and III
- (3) All I, II and III
- (4) Question cannot be answered with data in all three statements.
- (5) None of these

Directions : In each of the following questions, a question is followed by information given in three statements.' You have to decide the information given in which of the statements is necessary and sufficient to answer the question.

11. The company earned how much profit in "the year 2002 ?

- I. In 2001 the company earned 40% more profit which earned in the year 2003.
- II. The company earned the profit of 20 crores together in the year 2001 and 2002.
- III. The company earned in 2003, 80% profit which was earned in the year 2002.

- (1) Any two of (I), (II) and (III) are sufficient
- (2) Either (I) and (II) or (II) and (III) are sufficient
- (3) (I) and (II) or (III) are sufficient
- (4) (I), (II) and (III) are necessary to answer
- (5) (I), (II) and (III) together are not sufficient to answer

12. What is monthly salary of an assistant of company in which managers, supervisors and assistants are appointed ?

- 1. Each supervisor gets more than an assistant by Rs. 12,000 per month.
- II. Total salary of supervisor and an assistant is Rs. 32,000 per month
- III. Total salary of a manager and a supervisor is Rs. 57,000

- (1) Either (I) or (II) and (III)
- (2) Only (I) and (II)
- (3) Any two of (I), (II) and (III)
- (4) (I), (II) and (III) all the three are necessary
- (5) (I), (II) and (III) together are not sufficient to answer the question

13. What is the measurement of perimeter of a semicircle in centimetre ?

- I. Area of the semicircle is equal to the area of the parallelogram. .
- II. Length of the parallelogram is 1.5 times of the radius of the semicircle.
- III. The difference of the length and breadth of a parallelogram is 8 cm.

- (1) Only (II) and (III) are sufficient
- (2) Only (I) and (III) are sufficient
- (3) Only (I) and (II) are sufficient
- (4) (I), (II) (III) all the three are necessary to answer the question
- (5) (I), (II) and (III) together are not' sufficient to answer the question.

14. In a business of A, B and C together, what profit B earn in 2 years ?

- I. A and B started a business with the capital in the ratio of 3 : 5 respectively.
- II. C joined them after 6 months with a capital of Rs. 4 lakh.
- III. At the end of 2 years the share of A in the profit was Rs. 60,000 /-.

- (1) Only (I) and (III) are sufficient
- (2) Only (II) and (III) are sufficient
- (3) Either (I) or (II) and (III) are sufficient
- (4) All the three are necessary to answer the question
- (5) All the three together are not sufficient

15. How many students secured at least 60% marks in Mathematics in a class of 240 students ?

- I. 20% of the student in the class secured 80% and above marks in Mathematics.
- II. 80 students have secured more than 50% but less than 60% marks in Mathematics.
- III. The A number of students who secured marks between 60 and 79% was equal to the number of students who secured less than 50% marks in Mathematics.

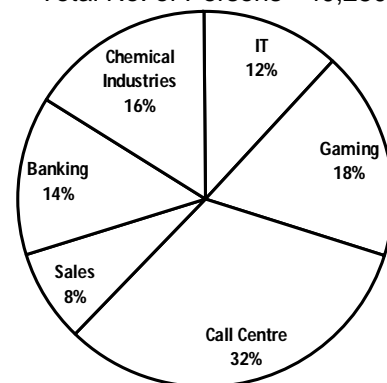
- (1) All (I), (II) and (III) are necessary to answer the question
- (2) Only (I) and (III) are sufficient
- (3) Only (II) and (III) are sufficient
- (4) Only (I) and (II) are sufficient
- (5) The question cannot be answered even with all (I) (II) and (III)

DATA INTERPRETATION

Directions : Study the following pie-chart carefully and answer the questions given below :

Percentage of People working in night shifts.

Total No. of Persons - 40,250



Percentage of females from various Industries working in nights shifts

Industry	Female
IT	20%
Gaming	20%
Call Centre	45%
Sales	60%
Banking	40%
Chemical Industry	15%

1. What is the ratio of the men to the women working in night shifts from the Call Centre Industry ?

- (1) 9 : 11
- (2) 7 : 5
- (3) 8 : 13
- (4) 11 : 7
- (5) None of these

- What is the approximate average number of females working in night shift from all the industries together ?
 - 2227
 - 4481
 - 3326
 - 2823
 - 4107
- What is the total number of 'men working in night shifts from all the industries together ?
 - 28297
 - 25788
 - 28678
 - 26887
 - None of these
- The number of women from the gaming industry is what percent of the total number of people working in the night shifts from all the industries together?
 - 5.6%
 - 3.6%
 - 3.2%
 - 4.4%
 - None of these

Directions : Study the table carefully to A answer the questions that follow :

Number of students appeared (A) and qualified (Q) in an examination from various institutes-

Years → Industries ↓	2003		2004		2005		2006		2007	
	A	Q	A	Q	A	Q	A	Q	A	Q
B	1545	1240	1654	1566	1684	1500	1440	1165	1564	1462
C	1647	1106	1897	1689	1550	1278	1390	1072	1575	1388
D	1765	1567	1574	1024	1754	1210	1364	1145	1510	1214
E	1530	1234	1886	1542	1806	1586	1478	1388	1645	1296
F	1605	1356	2004	1930	1666	1498	1560	1389	1690	1480

- Percentage of candidates qualified over appeared) from Institute D is the lowest during which of the following years?
 - 2003
 - 2004
 - 2005
 - 2007
 - None of these
- Approximately what is the percentage of candidates qualified over appeared from all the institutes together in 2007 ?
 - 68%
 - 55%
 - 74%
 - 92%
 - 86%
- What is the difference between the number of students appeared but not -qualified in the exam from institute B in the year 2004 and the number of students appeared but not qualified in the exam from the same institute in the year 2006 ?
 - 187
 - 881
 - 275
 - 373
 - None of these
- 'What 'is the approximate average number of candidates appeared for the exam from institute E over then years ?
 - 1759
 - 1586
 - 1671
 - 1924
 - 1837

Directions : Study the following table of parliament carefully and answer the questions given below it :

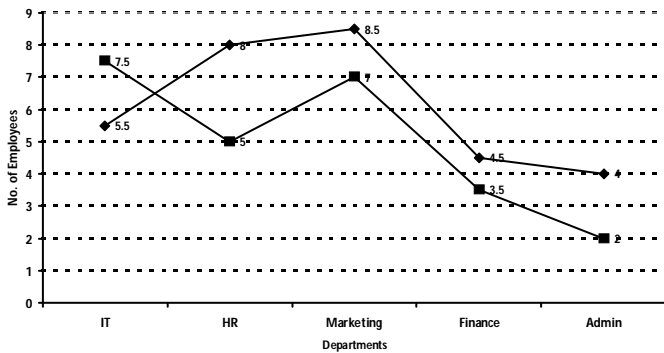
PROFILE OF PARLIAMENT IN YEAR XXXX
Total members in Parliament = 640
(490 from Lok Sabha and 150 from Rajya Sabha)

Lok Sabha (No. of Members)	Party	Rajya Sabha (No. of Members)
280	A	90
180	B	45
30	Others	15
490	Total	150
SEX		
435	Males	120
55	Females	30
Religion		
384	Hindus	84
42	Muslims	20
75	Sikhs	35
25	Christians	10
Profession		
300	Graduates	50
45	Businessmen	19
60	Educators	11
85	Unkown	70

- What is the approximate percentage of the Muslim members in the Lok Sabha ?
 - 9%
 - 11%
 - 13%
 - 14%
 - None of these
- In the Rajya Sabha, if 30, male members were replaced by 30 female members, then what would be the ratio of male members to female members ?
 - 3 : 1
 - 3 : 2
 - 1 : 3
 - 2 : 3
 - 2 : 1
- What percentage of members in parliament are businessmen
 - 8%
 - 20%
 - 30%
 - 18%
 - 10%
- If all the 'others' of Lok Sabha join the party 'B' then what will be the ratio of the members of party 'A' to the members of party 'B'?
 - 3 : 2
 - 6 : 5
 - 4 : 3
 - 7 : 6
 - 4 : 5

Directions : Study the following graph carefully and answer the questions given below it:

Number of employees working in various department of two different companies (number in hundred)



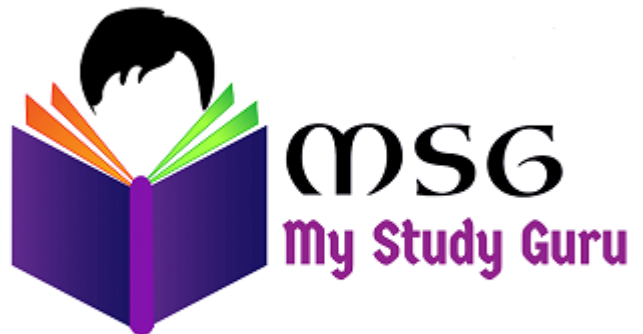
- The number of employees working in the Market ing department of Company B are what per cent to the total number of employees working in the company ?
 (1) 30% (2) 28%
 (3) 23% (4) 32%
 (5) None of these
- What is the ratio of the total number of employees working in the Admin department of both the companies together and the total number of employees working in the Finance department of both the companies together ?
 (1) 2 : 3 (2) 4 : 3
 (3) 3 : 2 (4) 3 : 4
 (5) None of these
- The number of employees working in the HR department of Company A is approximately what percent to the number of employees working in the Finance department of Company B ?
 (1) 44% (2) 207%
 (3) 53% (4) 229%
 (5) 198%
- If the number of employees working in the IT department of Company B is increased by 20%, what would be the difference between the number of employees working in the IT department of Company B and the Admin department of Company A ?
 (1) 500 (2) 350
 (3) 700 (4) 400
 (5) None of these

Directions : Study the following table carefully and answer the questions given below it :

Percentage of Marks Obtained by Various Students in Various Subjects in an Examination

Students	Marks					
	English (out of 100)	Hindi (out of 100)	Science (out of 100)	History (out of 100)	Maths (out of 100)	Geography (out of 100)
A	68	75	82	60	96	55
B	88	73	85	65	88	65
C	75	56	72	75	75	80
D	70	66	80	80	72	62
E	72	60	68	74	68	75
F	85	70	90	70	74	70

- What is the approximate overall percent age obtained by C in the examination ?
 (1) 78% (3) 75%
 (5) 65% (2) 69%
 (4) 71%
- What is the difference ' in the marks obtained by B in English and Maths together and the marks obtained by F in the same subjects ?
 (1) 24 (2) 17
 (3) 15 (4) 28
 (5) None of these
- The marks. obtained by E in Geography in what percent of the marks of the marks obtained by E in Hindi ' ?
 (1) 45% (2) 55%
 (3) 50% (4) 60%
 (5) None of these
- What is the Overall %age of marks obtained by D in History and Geography together ?
 (1) 73.40% (2) 72.80%
 (3) 70.50% (4) 68.80%
 (5) None of these



DATA ANALYSIS

Directions : Study the following information carefully to answer these questions :

An Institute having 450 employees has sent all its employees for training in one or more areas out of HRM, Computer Skills and Financial Skills. The employees are classified into two categories-Officers and Clerks, who are in the ratio of 4 : 5. 10% of the Officers take training only in Computer Skills, 16% of the Clerks take training only in HRM Which is equal to the number of Officers taking training only in Financial Skills and 50% of the number of Officers taking training in HRM and Financial Skills both 6° :-of the total employees take training in all the three, of which two-thirds are officers.) 10% of the total employee take training in HRM and Computer Skills both, which is five times the number of Clerks taking training in Computer Skills and Financial Skills. 10% of the Clerks take training in HRM and Computer Skills both. The number of officers taking training only in HRM is 25% of the number of Clerks taking training only in HRM. 20% of the total number of employees take training only in Computer Skills. Number of clerks taking training in HRM and Financial Skills both is 20% of the total number of Clerks.

- Total how many officers take training in HRM ?
(1) 110 (2) 128
(3) 118 (4) 98
(5) None of these
- Total how many Clerks take training in Computer Skills but not in HRM ?
(1) 113 (2) 104
(3) 88 (4) 79
(5) None of these
- Total how many employees take training in Financial Skills but not in HRM ?
(1) 106 (2) 135
(3) 127 (4) 134
(5) None of these
- Total how many Clerks take training in Financial Skills ?
(1) 115 (2) 106
(3) 47 (4) 97
(5) None of these

Directions : Study the following information carefully and answer the questions given below it :

Out of the 15000 candidates eligible for an Officer's post in a Public Sector Bank, 450 candidates have prior experience of working in Public Sector banks in rural areas only. 25% of the total number of candidates have prior experience of working in Public Sector banks in urban areas only. 12% of the total number candidates have prior experience of working in Private Sector Banks in urban areas only. 2% of the total number of candidates have prior experience of working in Private Sector banks in rural areas only 3600 candidates have worked in Public Sector Banks in both urban and rural areas. 15% of the total number of candidates have worked in both Public and Private Sector Banks in

urban areas only. 600 candidates have worked in both Public and Private Sector Banks in rural areas only. _The remaining candidates have no prior experience of working in the Banking industry.

- How many candidates have prior experience of working in rural areas (both Public Sector and Private Sector Banks together) ?
(1) 4350 (2) 4950
(3) 4800 (4) 4900
(5) 4850
- How many candidates have prior experience of working in Public Sector Banks (Urban and rural are as together) ?
(1) 12450 (2) 8400
(3) 10050 (4) 10650
(5) None of these
- What is the ratio of the candidates who have a prior experience of working in Public Sector banks in rural are as only to the candidates who have a prior experience of working in Private Sector Banks in rural are as only ?
(1) 4 : 3 (2) 3 : 2
(3) 2 : 3 (4) 3 : 4
(5) None of these
- What is the total number of candidates who have worked in Private Sector banks in urban areas ?
(1) 1800 (2) 2250
(3) 4050 (4) 3600
(5) None of these

Directions : Study the following information carefully and answer the questions that follows:

A company produces four different products, viz Mobile Phones, Televisions, Refrigerators and Computers. Each of the products has two categories, viz Category-A and Category-B. The total number of all the products is 600. 20% of the total number of products is Computers and 1 one-third of the total number of products is Televisions. 40% of the remaining products are Refrigerators. 50% of the number of Computers as Well as the number Mobile Phones is of Category-A. 25% of the number of televisions is of Category-B. One-fourth of the number of Refrigerators is of Category-A.

- What is the ratio between the number of Mobile Phones of Category-A and the number of Computers of Category-A ?
(1) 7 : 6 (2) 5 : 9
(3) 7 : 3 (4) 7 : 9
(5) None of these
- What is the approximate average number of products of Category-A together ?
(1) 88 (2) 86
(3) 90 (4) 95
(5) 99

11. What is the total number of Televisions of Category-A, Refrigerators of Category-B and Mobile Phones of Category-A together ?
(1) 318 (2) 328
(3) 296 (4) 266
(5) None of these
12. The combination of which of the two products of Category-B is exactly equal in number ?
(1) Mobile Phone and Computer
(2) Mobile Phone and Refrigerator
(3) Television and Refrigerator
(4) Television and Computer
(5) None of these
- Directions :** Study the given information carefully and answer the questions that follow :
- An urn contains 3 red, 6 blue, 2 green and 4 yellow marbles.
13. If two marbles are picked at random, What is the probability that both are green ?
(1) $\frac{2}{15}$ (2) $\frac{6}{91}$
(3) $\frac{2}{7}$ (4) 1
(5) None of these
14. If three marbles are picked at random, what is the probability that two are blue and one is yellow?
(1) $\frac{2}{15}$ (2) $\frac{6}{91}$
(3) $\frac{12}{91}$ (4) $\frac{3}{15}$
(5) None of these
15. If four marbles are picked at random, what is the probability that at least one is yellow ?
(1) $\frac{91}{123}$ (2) $\frac{69}{91}$
(3) $\frac{125}{143}$ (4) $\frac{1}{4}$
(5) None of these
16. If four marbles are picked at a random, what is the probability that either both are red or both are green?
(1) $\frac{3}{5}$ (2) $\frac{4}{105}$
(3) $\frac{2}{7}$ (4) $\frac{5}{91}$
(5) None of these
17. If four marbles are picked at random, What is the probability that either both are red or both are green ?
(1) $\frac{4}{15}$ (2) $\frac{17}{280}$
(3) $\frac{6}{91}$ (4) $\frac{11}{15}$
(5) None of these

ANSWER KEY

DATA

DATA SUFFICIENCY

- | | |
|-------|-------|
| 1. 2 | 11. 4 |
| 2. 5 | 12. 2 |
| 3. 4 | 13. 5 |
| 4. 1 | 14. 1 |
| 5. 4 | 15. 5 |
| 6. 2 | |
| 7. 1 | |
| 8. 4 | |
| 9. 5 | |
| 10. 3 | |

INTERPRETATION

- | | |
|-------|-------|
| 1. 5 | 11. 5 |
| 2. 1 | 12. 3 |
| 3. 4 | 13. 2 |
| 4. 2 | 14. 4 |
| 5. 2 | 15. 4 |
| 6. 5 | 16. 1 |
| 7. 1 | 17. 4 |
| 8. 3 | 18. 1 |
| 9. 1 | 19. 3 |
| 10. 2 | 20. 2 |

DATA ANALYSIS

- | | |
|-------|-------|
| 1. 3 | 11. 1 |
| 2. 4 | 12. 2 |
| 3. 5 | 13. 5 |
| 4. 1 | 14. 3 |
| 5. 2 | 15. 2 |
| 6. 4 | 16. 2 |
| 7. 2 | 17. 3 |
| 8. 3 | |
| 9. 5 | |
| 10. 1 | |

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