



# All India Civil Services Coaching Centre

(Under the aegis of Government of Tamil Nadu)

## TEST BOOKLET

### Test 2 – CSAT Test

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**Time Allowed: 2 Hours**

**Maximum Marks: 200**

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## INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET
2. You have to enter your Name on the Test Booklet
3. This Test Book contains 80 items (questions). Each it comprises four responses (answers). You will select the response, which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response, which you consider the best. In any case, choose ONLY ONE response for each item.
4. You have to mark all your response ONLY on the separate sheet provided along with the Test Booklet.
5. All items Carry equal marks. There will be **penalty (negative marking)** for wrong answers marked by you in the Answer sheet.
6. There are four alternatives for the answers to every question. For each question for which a wrong answer has been given by the candidate, one third ( $\frac{1}{3}$ ) of the marks assigned to that question will be deducted as penalty.
7. If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will same penalty as above for that question.
8. If a question is left blank i.e., no answer is given by the candidate, there will be no penalty for that question.

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO**



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- The average of runs of a cricket player of 10 innings was 32. How many runs must he make in his next innings so as to increase his average of runs by 4?  
(a) 76  
(b) 79  
(c) 85  
(d) 87
- In a certain school, 20% of students are below 8 years of age. The number of students above 8 years of age is  $\frac{2}{3}$  of the number of students of 8 years of age which is 48. What is the total number of students in the school?  
(a) 72  
(b) 80  
(c) 120  
(d) 100
- In a family, a couple has a son and daughter. The age of the father is four times that of his daughter and the age of the son is half of his mother. The wife is ten years younger to her husband and the brother is six years older than his sister. What is the age of the mother?  
(a) 34  
(b) 40  
(c) 38  
(d) 42
- The average temperature in Hyderabad for the first four days of the month was reported as 58 degrees. It reported 60 degrees for 2nd, 3rd, 4th and 5th days. The ratio of the temperatures of the 1st and 5th day was 7 : 8. Find the temperature on the first day.  
(a) 42 deg.  
(b) 56 deg.  
(c) 63 deg.  
(d) 68 deg.
- If in a certain code language, 'MIRROR' is coded as '139181815', how will 'APPLE' be coded in the same language ?  
(a) 11616125  
(b) 3984145  
(c) 1162254  
(d) 11213147
- The number A4571203B is divisible by 18. Find the value of A and B.  
(a) 8, 6  
(b) 6, 8  
(c) 4, 6  
(d) 6, 4
- If a man cycles at 10 kmph, he arrives at his office at 1 PM. If he cycles at 15 kmph he will arrive at his office at 11 AM. At what speed must he cycle to get to the office at noon?  
(a) 14 km/hr  
(b) 11 km/hr  
(c) 12 km/hr  
(d) None of the above

### Directions for Questions 8 to 11 (4 items):

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

Six friends P, Q, R, S, T and U gather at P's home to watch a one-day cricket match on TV. Each friend belongs to a different state, viz. Bihar, Goa, Haryana, Manipur, Nagaland, and Sikkim but not necessarily in the same order. Each friend has a different occupation, viz. Officer, Doctor, Teacher, Clerk, Salesman and Accountant.

The one who is a Teacher belongs to Goa. The one who is a Doctor is not from Nagaland. S is a clerk, Neither R nor P is a Doctor. The one who

is from Manipur is an Officer. P does not belong to Manipur. The person who belongs to Sikkim is T but is not a Doctor. Q is neither a Teacher nor a Doctor, and he is from Bihar.

8. The one who is an Accountant belongs to which of the following States?

- (a) Sikkim
- (b) Bihar
- (c) Either (a) or (b)
- (d) None of the above

9. Who among the following is a Teacher?

- (a) R
- (b) P
- (c) U
- (d) Q

10. Who among the following belongs to Nagaland?

- (a) U
- (b) Accountant
- (c) Q
- (d) Clerk

11. Which of the following combinations is correct?

- (a) P – Goa – Teacher
- (b) R – Nagaland – Officer
- (c) T – Sikkim – Clerk
- (d) U – Haryana – Accountant

12. A person had to multiply two numbers. Instead of multiplying by 33, the person multiplied by 51, and the product went up by 360. What is the raised product?

- (a) 1175
- (b) 1380
- (c) 1490
- (d) 1020

13. A dog is tied to a post by a rope. If the dog moves along a circular path always keeping the string stretched and describes 198 m when it has traced out  $108^\circ$  at the centre, what is the length of the rope?

- (a) 135 m
- (b) 108 m
- (c) 105 m
- (d) 107 m

14. A man covers one-third of distance at a speed of 60 km/hr, next one-third at a speed of 30 km/hr and rest one-third at a speed of 20 km/hr. Find the average speed of man during the journey?

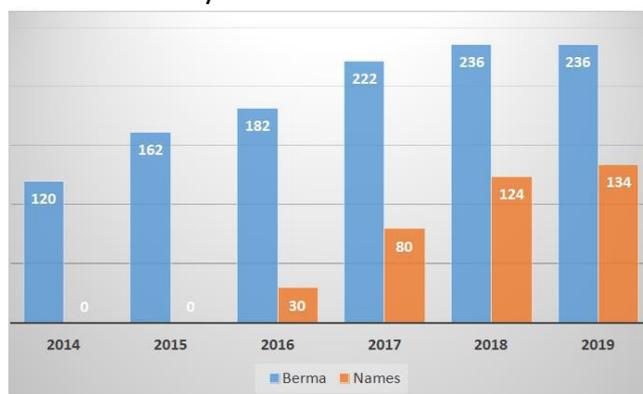
- (a) 36 km/hr
- (b) 25 km/hr
- (c) 30 km/hr
- (d) 36.66 km/hr

15. Sonu saves Rs. 1 on the first day of February, Rs. 2 on the second day, Rs. 3 on the third day and so on. What will be the total money Sonu will save in February if it is a leap year?

- (a) 395
- (b) 406
- (c) 435
- (d) None of the above

**Directions for (Q.16 – Q.19):** Answer the questions based on the information given below.

Berma and Names are two brands of kitchen knives available in the local market. Berma is an old brand that was introduced in 2010, while Names was introduced in 2016. For both these brands, 20% of the knives bought in a particular year are disposed of as junk exactly two years later. It is known that 10 Berma knives were disposed of in 2014. The following figures show the number of Berma and Names knives in operation from 2014 to 2019, as at the end of the year.



16. How many Names knives were purchased in 2018?

- (a) 44
- (b) 50
- (c) 55

(d) 64

17. How many Names knives were disposed of by the end of 2019?

- (a) 10
- (b) 16
- (c) 22
- (d) Cannot be determined from the data

18. How many Berma knives were disposed of in 2019?

- (a) 0
- (b) 5
- (c) 6
- (d) Cannot be determined from the data

19. How many Berma knives were purchased in 2018?

- (a) 20
- (b) 23
- (c) 50
- (d) Cannot be determined from the data

20. Select the missing number from the options given below.

2	1	2
21	22	?
26	46	20
1092	1012	1000

- (a) 1012
- (b) 48
- (c) 25
- (d) 36

21. Babu said to Sanjay, "That boy playing with football is younger of the two brothers of the daughter of my father's wife." How is the boy playing football related to Babu?

- (a) Uncle
- (b) Elder brother
- (c) Younger brother
- (d) Cousin

22. The income of Suresh is 10000 and its expenditure is 6000 and thus saves 4000 Rs. In

the next year, his income is increased by 10% and its expenditure increased by 20%. Now his saving is what percent lower than the previous saving

- (a) 5%
- (b) 7.5
- (c) 10%
- (d) 15%

23. The average age of a class of 20 students is 12 years. Out of which, one student whose age is 10 years left the class and two new boys entered the class. The average age of the class remains the same and the difference between the ages of new boys is 4 years. What will be the age of the younger one?

- (a) 9
- (b) 11
- (c) 7
- (d) 13

24. A salesman gets commission on total sales at 12%. If his sales exceed Rs.10000, he gets a 4% bonus on excess of sales over Rs.10000. If he gets a total commission (including bonus) of Rs.1800, then the bonus received is

- (a) 400
- (b) 150
- (c) 450
- (d) 600

25. A watch loses 90 seconds in an hour and the watch owner adjusts the time lost by the watch in one day at the end of 48 hrs. After how many days will the watch show the correct time before the watch owner adjust the time?

- (a) 80 days
- (b) 40 days
- (c) 60 days
- (d) None of these

26. Sanjeev can run one km in 3 minutes 10 seconds and Motiani can run the same distance in 3 minutes 20 seconds. If they start together, by what distance can Sanjeev beat Motiani in that race?

- (a) 100 m
- (b) 25 m
- (c) 50 m
- (d) 75 m

27. Two trains of equal lengths take 10 seconds and 15 seconds respectively to cross a telegraph post. If the length of each train be 300 meters, at what time will they cross each other traveling in opposite direction?

- (a) 25 sec
- (b) 18 sec
- (c) 14 sec
- (d) 12 sec

28. A fruit seller buys dry fruits at Rs.80, 100 and 120 per kilogram. He mixes them in the ratio 3 : 4 : 5 by weight, and sells at a profit of 50%. Which of the following can be the selling price of the fruits?

- (a) Rs. 80
- (b) Rs. 100
- (c) Rs. 95
- (d) None of these

**Directions (29 - 31):** Read the information carefully and answer the questions based on it.

Five people are sitting in a row. One of the two people at the extreme ends is intelligent and the other one is fair. A fat person is sitting to the right of a weak person. A tall person is sitting to the left of the fair person and the weak person is sitting between the intelligent and fat person.

29. Tall person is at which place counting from right ?

- (a) First
- (b) Second
- (c) Third
- (d) Fourth

30. Person to the left of weak possesses which of the following characteristics ?

- (a) Intelligent
- (b) Fat
- (c) Fair
- (d) Tall

31. Which of the following persons is sitting at the centre ?

- (a) Intelligent
- (b) Fat
- (c) Fair

(d) Weak

32. Between 6 PM and 7 PM the minute hand of a clock will be ahead of the hour hand by 3 minutes at

- (a) 6: 15 PM
- (b) 6: 18 PM
- (c) 6: 36 PM
- (d) 6: 48 PM

33. Two numbers  $x$  and  $y$  are such that  $x = y^2$ . If  $Y$  is increased by 10%, then  $x$  is

- (a) Increased by 100%
- (b) Increased by 10%
- (c) Increased by 11%
- (d) Increased by 21%

34. Ram buys two chairs at the same price and later sold a chair for Rs. 1950 and another for Rs. 1050, the profit percentage on the first chair is equal to the loss percent on the second chair. At what price he sold to make 25% profit?

- (a) Rs 3000
- (b) Rs 1500
- (c) Rs 1875
- (d) Rs 3750

35. If 16 Painters working 5 hours a day can paint 320 floors in 20 days, then the number of floors painted by 20 painters in 24 days each working 8 hours a day

- (a) 6200
- (b) 768
- (c) 550
- (d) 844

36. A man pointing to a photograph says, "The lady in the photograph is my nephew's maternal grandmother." How is the lady in the photograph related to the man's sister who has no other sister?

- (a) Cousin
- (b) Sister-in-law
- (c) Mother
- (d) Mother-in-law

37. A vessel is filled with liquid, 4 parts of which are water and 7 parts syrup. How much of the mixture must be drawn off and replaced with

water so that the mixture may be half water and half syrup?

- (a) 14/33
- (b) 33/14
- (c) 3/14
- (d) 1/11

38. Five bells begin to toll together and toll respectively at intervals of 6, 5, 7, 10 and 12 seconds. How many times will they toll together in one hour excluding the one at the start ?

- (a) 7 times
- (b) 8 times
- (c) 9 times
- (d) 11 times

39. The salary of an employee increases consistently by 50% every year. If his salary today is Rs. 10,000, what will be the salary after another 4 years?

- (a) Rs. 62500
- (b) Rs. 26500
- (c) Rs. 50625
- (d) None of the above

40. A train 130 m long passes a bridge in 21 seconds moving with a speed of 90 km/hr. Find the length of the bridge?

- (a) 400 m
- (b) 395 m
- (c) 405 m
- (d) 390 m

**Directions for (Q.41 - Q.44)** Study the following information carefully and answer the questions that follow.

Mohit and Sourabh are good at Dance and Cricket. Aman and Mohit are good at Cricket and Singing. Aman, Pawan, and Nitesh are good at Singing and Swimming. Nitesh and Aman are good at Singing and Cooking. Pawan and Sourabh are good at Swimming and Dance.

41. Who is good at Cricket, Swimming, and Dance?

- (a) Aman
- (b) Mohit
- (c) Sourabh
- (d) Nitesh

42. Who is good at Singing, Dance, and Cricket?

- (a) Sourabh
- (b) Pawan
- (c) Mohit
- (d) Aman

43. Who is good at Singing, Swimming, and Dance?

- (a) Pawan
- (b) Sourabh
- (c) Mohit
- (d) Aman

44. Who is good at Singing, Swimming, and Cooking but not in Cricket?

- (a) Mohit
- (b) Pawan
- (c) Nitesh
- (d) Aman

45. There are 140 pages (numbered 1 to 140) in a book. Find the probability of opening a page that bears multiple of either 3 or 5.

- (a) 11/35
- (b) 17/36
- (c) 13/28
- (d) 11/26

**Directions (Q.46 - Q.47):** Read the following information carefully and answer the questions given below.

R is the father of C, who is a son-in-law of P and E is the mother of G. E is a sister of K, who is a brother-in-law of C and D is the daughter of A, who is a grandmother of G.

46. If P is a female, then how is P related to C?

- (a) Mother-in-law
- (b) Sister-in-law
- (c) Niece
- (d) Cannot be determined

47. If K married to S, then how is S related to P?

- (a) Daughter-in-law
- (b) Son-in-law
- (c) Mother-in-law
- (d) Father-in-law

48. In which direction is A from B?

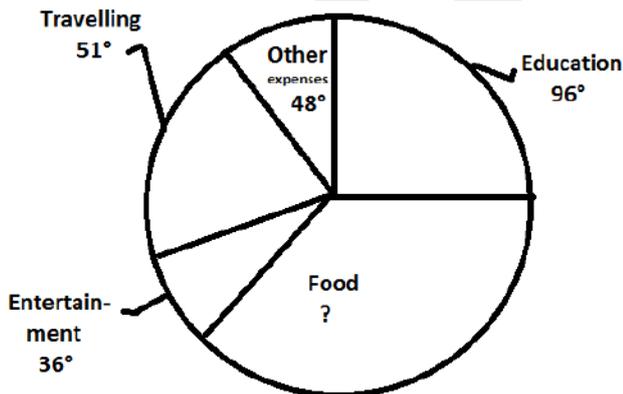
1. C is in the South from B which is in the West of A.
  2. B and D are in a straight line and D is in the South from A.
- (a) If only statement (1) is sufficient to answer the question.
  - (b) If only Statement (2) is sufficient to answer the question.
  - (c) If both Statements (1) and (2) are required to answer the question.
  - (d) If Statements (1) or (2) alone is sufficient to answer the question.

49. A Birthday cap is in the form of a right circular cone which has a base of radius as 7 cm and height equal to 24 cm. Find the approximate area of the sheet required to make 5 such caps.

- (a) 2800 cm<sup>2</sup>
- (b) 3000 cm<sup>2</sup>
- (c) 2650 cm<sup>2</sup>
- (d) 2750 cm<sup>2</sup>

**Directions (Q.50 - Q.53):** Study the following the pie-chart and table carefully to answer the questions given below

The following pie-chart shows the distribution of the monthly family budget of a person.



The following table shows the further distribution (in percent) of the above-mentioned items among the five family members i.e. Pawan (the person himself), Wahida (his wife), Rubul (son), Aman (son), and Rakhi (his daughter). His monthly family budget is Rs. 1, 20,000

	Education	Food	Entertainment	Traveling	Other Expenses
Pawan	10	30	10	40	20
Wahida	15	25	30	10	25
Rubul	40	20	20	25	20
Aman	25	15	25	10	10
Rakhi	10	10	15	15	25

50. What are the average expenses of Pawan?

- (a) Rs. 5620
- (b) Rs. 5640
- (c) Rs. 5460
- (d) Rs. 5480

51. What is the approximate percentage increase in the amount Which Rubul enjoys for entertainment as compared to Rakhi for the same?

- (a) 33%
- (b) 31%
- (c) 37%
- (d) 35%

52. Find the difference (in the percentage of the budget) between the average expenses of Education and the average expenses on Entertainment of the couple?

- (a) 1.3%
- (b) 0.9%
- (c) 2%
- (d) 2.5%

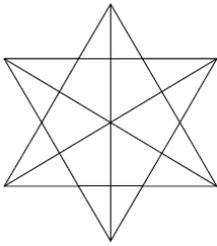
53. The total amount spent by Rubul on Travelling and Food is approximately what percent of the total amount spent by Rakhi on Education and Food?

- (a) 168%
- (b) 171%
- (c) 175%
- (d) 174%

54. If 1st day of a century is Friday then what could be the 1st day of the next century.

- (a) Monday or Tuesday
- (b) Sunday or Monday
- (c) Tuesday or Wednesday
- (d) None of these

55. Consider the following figure:



How many triangles does the above figure have?

- (a) Less than 35  
(b) 35-45  
(c) 45-55  
(d) More than 55
56. In a row of 40 girls, when Komal was shifted to her left by four places, her number from the left end of the row becomes 10. What was the number of Swati from the right end of the row if Swati was three places to the right of Komal's original position?  
(a) 24  
(b) 23  
(c) 22  
(d) 25
57. The price of wheat has increased by 30%. Rohit has decided to spend only 17% more than his earlier spend. By what percentage does he have to decrease his wheat consumption?  
(a) 13%  
(b) 12%  
(c) 10%  
(d) 15%
58. Six people attend Maths lectures on different days of the same week from Monday to Sunday. J attends the lecture before Thursday but after K. Three people attend the lecture between L and M; who attends the lecture after J. J does not attend the lecture immediately after K. N attends the lecture before P. Thursday remains a holiday. Who among the following attends the lecture on Saturday?  
(a) N  
(b) P  
(c) M  
(d) None of these
59. Anand and Bharat walked together towards the north for 20 m. They then turned right and walked another 30 m. They again turned right and walked 35 m. Now, they turned left and walked 15 m. Finally, they again turned left and walked 15 m. In which direction they are now and what is the distance between their end point and start point?  
(a) East, 45m  
(b) North-east, 35m  
(c) East, 30m  
(d) South-east, 35m
60. A container contains 40 litres of milk. From this container 4 litres of milk was taken out and replaced by water. This process was repeated further two times. How much milk is now contained by the container?  
(a) 36 litres  
(b) 32.4 litres  
(c) 29.16 litres  
(d) 28 litres
61. A number consists of three digits having their sum as 6 and the tens digit as 0. If the number formed by reversing the original number is greater than the original number by 396, what is the difference between the first and last digit?  
(a) 5  
(b) 3  
(c) 4  
(d) 2
62. The speed of a boat in still water is 62.5% of its downstream speed. The boat covers 42 km upstream in 7 hours. In how much time does it cover 108 km downstream?  
(a) 2.5 hours  
(b) 3.5 hours  
(c) 3.75 hours  
(d) 4.5 hours
63. If the average height of 30 boys in a class of 50 is 165 cm and total height of all the students together is 8190 cm, what is the average height of girls in this class?  
(a) 163 cm  
(b) 162 cm  
(c) 161 cm

(d) 160 cm

(d) 192 m

64. Consider the following sequence:

lam\_nc\_dpe\_frqs\_

The letters that appear in the gaps (in sequence) are:

- (a) boqh
- (b) bori
- (c) bohq
- (d) bpqh

65. In Delhi, petrol costs Rs. 84 per litre and diesel costs Rs. 79 per litre. Petrol costs Re. 1 more in Chennai than in Delhi. The average price (per litre of both petrol and diesel) in Chennai is Rs. 6 more than the corresponding average price (per litre of both petrol and diesel) in Delhi. How much does diesel cost in Chennai?

- (a) Rs. 87
- (b) Rs. 90
- (c) Rs. 93
- (d) Rs. 83

66. If we add 5 to the numerator of the fraction and double the denominator, the new fraction has a value of  $\frac{3}{2}$ . If the numerator increases by 9 and denominator increases by 4, the value of the new fraction is 2. What is the value of 1.5 times the original fraction?

- (a)  $\frac{7}{4}$
- (b)  $\frac{7}{5}$
- (c)  $\frac{21}{8}$
- (d)  $\frac{19}{4}$

67. A watch, which gains 6 seconds in 5 minutes, was set right at 9 a.m. What time will it show at 12 p.m. on the same day?

- (a) 12:03:36 p.m.
- (b) 12:03:30 p.m.
- (c) 12:03:24 p.m.
- (d) 12:03:40 p.m.

68. If Rajyarani Express crosses a pole on a station in 12 seconds and a 480 m long bridge in 42 seconds, what is the length of the train?

- (a) 216 m
- (b) 184 m
- (c) 196 m

69. The ratio of jobs done by 30 girls to the job done by 25 boys, in the same time period is 5:6. If 9 girls and 10 boys can finish a job in 40/13 days. Then how many girls are required to complete the job in 6 days?

- (a) 16
- (b) 18
- (c) 12
- (d) 14

70. Vishal rides on a bike to a place at a speed of 22 kmph and comes back at a speed of 20 kmph. If the time taken by him in the second case is 36 minutes more than that of the first case, what is the total distance travelled by him (in km)?

- (a) 132 km
- (b) 264 km
- (c) 134 km
- (d) 236 km

71. Two men, Anil and David, and two women, Shabnam and Rekha are in a sales group. Only two speak Tamil. The other two speak Marathi. Only one man and one woman can drive a car. Shabnam speaks Marathi. Anil speaks Tamil. Both Rekha and David can drive.

Which of the following statements is true?

- (a) Both the Tamil speakers can drive a car.
- (b) Both the Marathi speakers can drive a car.
- (c) Both of those who can drive a car speak Marathi.
- (d) One of those who can drive a car speaks Tamil.

72. A cow costs more than 4 goats but less than 5 goats. If a goat costs between 600 and 800, which of the following is a most valid conclusion?

- (a) A cow costs more than 2,500.
- (b) A cow costs less than 3,600.
- (c) A cow costs between 2,600 and 3,800.
- (d) A cow costs between 2,400 and 4,000.

73. In a box of marbles, there are three less white marbles than the red ones and five more white marbles than the green ones. If there are a

total of 10 white marbles, how many marbles are there in the box?

- (a) 26
- (b) 28
- (c) 32
- (d) 36

74. Two pipes A and B can independently fill a tank completely in 20 and 30 minutes respectively. If both the pipes are opened simultaneously, how much time will they take to fill the tank completely?

- (a) 10 minutes
- (b) 12 minutes
- (c) 15 minutes
- (d) 25 minutes

75. The Compound interest on a certain sum for 2 years is Rs. 1512 and Simple interest is Rs. 1440. If the sum is invested such that the SI is Rs. 2592 and the number of years is equal to the rate of interest per annum, then find the rate?

- (a) 5 %
- (b) 6 %
- (c) 7 %
- (d) 8 %

76. A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets Rs. 1000 more than D, what is B's share?

- (a) Rs. 500
- (b) Rs. 1500
- (c) Rs. 2000
- (d) None of these

77. A vessel contains milk and water in the ratio of 4:3. If 14 litres of the mixture is drawn and filled with water, the ratio changes to 3:4. How much milk was there in the vessel initially?

- (a) 24
- (b) 32
- (c) 40
- (d) 48

78. A bag contains 25p coins, 50p coins and 1 rupee coins whose values are in the ratio of 8:4:2. The total values of coins are 840. Then find the total amount in rupees.

- (a) 220
- (b) 240

- (c) 260
- (d) 280

79. Consider the given statement/s to be true and decide which of the given conclusions/assumptions can definitely be drawn from the given statement. Statement:

1. All bike are car
2. Some bike are truck

Conclusions:

1. Some truck are car
  2. All truck are bike
- (a) Only 1 follows
  - (b) Only 2 follows
  - (c) Both 1 and 2 follow
  - (d) Neither 1 nor 2 follows

80. Select the figure that will come next in the figure series.

