

Part-A : Mathematics

Section-I

(Each questions carries two marks.)

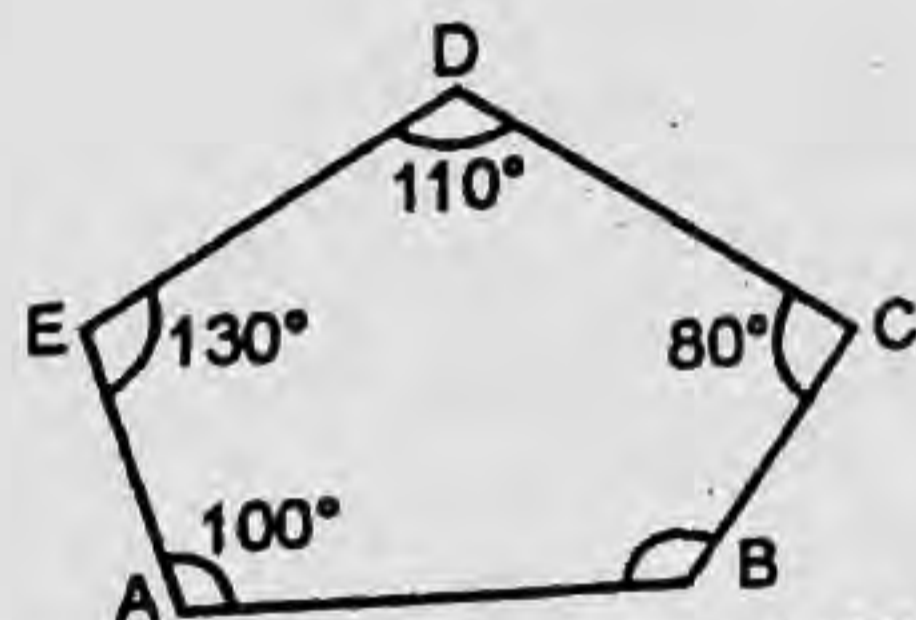
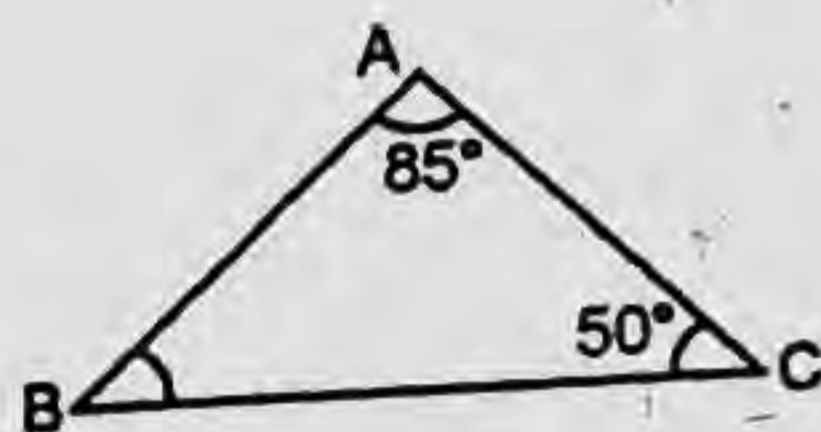
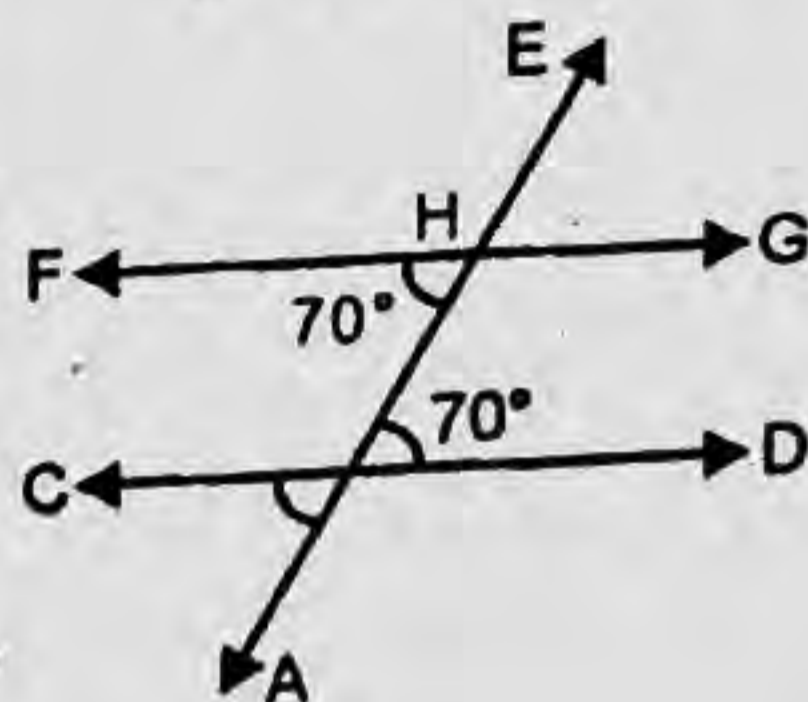
1. Find the lowest common multiple of 2, 4 and 5.
2. What least number should be added to 322516 so that the result is exactly divisible by 543?
3. The weight of book is 1 kg 350 g. Find the weight of 25 boxes if each box contains 38 books.
4. Find the prime factors of 231.
5. Express 20 as percentage of 25.
6. Find the value of $12\frac{1}{5} + 6\frac{1}{10}$
7. Arrange the following fraction in descending order (Use of $>$ symbol)
 $\frac{8}{9}, \frac{8}{11}, \frac{8}{15}, \frac{8}{13}$ and $\frac{8}{17}$
8. Find the HCF of 16, 24, 36
9. A shopkeeper sells a cycle for ₹ 575 and incurs a loss of 75. Find his loss percentage.
10. Ram slept at 9:30 PM and got up at 6:00 AM. How much time did he sleep?

Section-II

(Each questions carries three marks.)

11. Simplify: $10 - 2\frac{1}{3} \times 3 + 3\frac{3}{4} + 2\frac{1}{2}$
12. A train covers a distance of 560 km at a speed of 70 km per hour. Find the time taken by the train to cover this distance.

13. The age of 5 children is 13, 15, 11, 9 and 8 years respectively. Find their average age.
14. A carpet is 6.60 m long and 3.75 m broad. The carpet is surrounded by a lace. Find the length of the lace.
15. Find the measure of the angle ABC in each of the following figures using property of the given figure.



16. A container has 4 liters and 650 ml of curd. In how many glasses each of 25 ml capacity, can it be distributed?
17. A trader paid ₹ 900 as simple interest for 3 years on the sum of ₹ 4500 borrowed by him. Find the rate of interest.
18. Uma can finish a work in 18 days. The same work is finished by Manju in 9 days. In how many days both of them will finish the work while working together.
19. Amit plans to tile his kitchen floor with square tiles. Each side of the tile is 10 cm, his kitchen

is 2.6 m long and 1.7 m wide. How many tiles will Amit need?

20. Find the square root of $2\frac{113}{256}$.

Section-III

(Each questions carries five marks.)

21. A library has 1025 books in all. Out of this 205 books are on Science, 164 books are on Philosophy. Find the % of (i) Science books, (ii) Philosophy books.

22. Akbar gave $\frac{1}{3}$ rd of his savings to his wife $\frac{2}{5}$ th to his son. Akbar's total saving was ₹ 24,000. Find the balance amount left with Akbar.

23. A block of wood is in the form of a cube. Its edge is 4 m. How many rectangular pieces of size 20 cm × 10 cm × 5 cm can be cut from the block if there is no wastage of wood?

24. Explain and draw:-
(a) Intersecting lines
(b) Concurrent lines

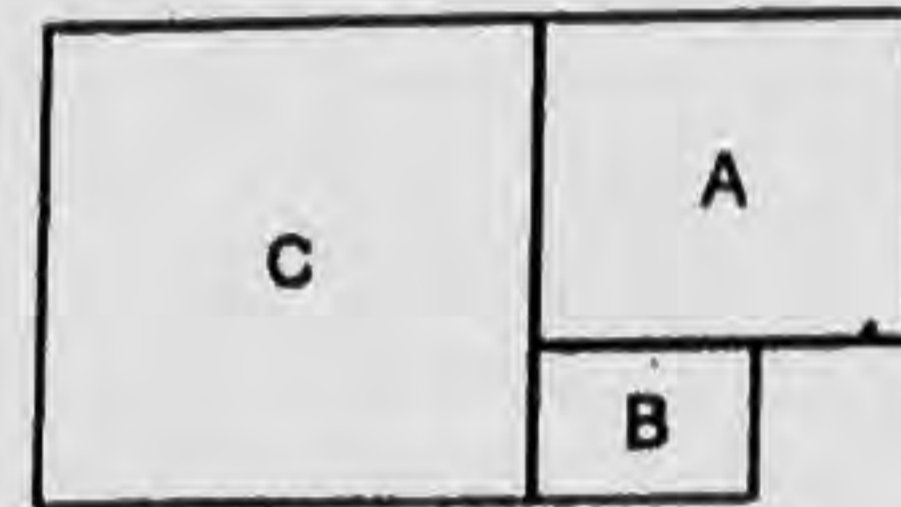
25. The total age of three persons is 60 years. The ages are in proportion 1:2:3. What are their ages?

26. A shopkeeper bought 15 tables at the rate of ₹ 50 each, 20 chairs at the rate of ₹ 30 each. He spent ₹ 40 on transportation. He sold all

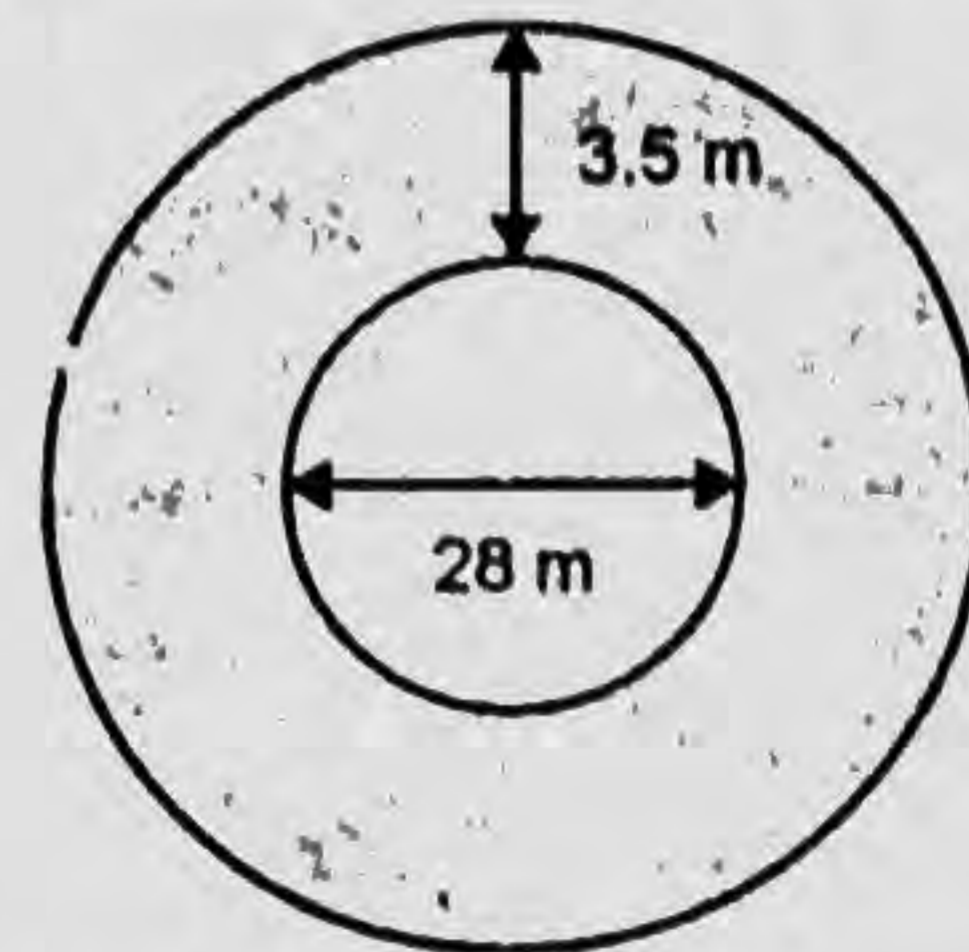
the tables and all the chairs for ₹ 1300. Find his gain or loss.

27. The angles of a triangle are in the ratio of 2:3:5. Find the angles of the triangle. Also write the type of the triangle.

28. The area of a square A is 25 cm². The perimeter of square B is 12 cm. What is the area and perimeter of square C?



29. Find the amount required to make a circular path around a garden as shown in the picture (shaded portion) if the rate is ₹ 20 per sq metre.



30. The average age of 5 boys is 13 years. One more boy joins them and the average age become 12 years. Find the age of boy who joins last.

PART-B : LANGUAGE ABILITY

1. Write 15 sentences on any one of the following topics— (15 Marks)

- (a) My Ambition in Life
- (b) Importance of Games

2. Read the following passage carefully and answer the questions that follow: (15 Marks)

Newspaper, writing paper, printing paper, typing paper, bolting paper, carbon paper, wall paper, stamp paper – who can deny that paper is one of the most useful article in man's daily life? Yet man did not invent paper. The real inventors are the wasps who pile away tiny wood shavings from fence-posts and tree trunks and chew them to a fine pulp from which they make the grey paper walls of their nests. Who were the first paper makers amongst men? Thousands of years ago the people of Egypt made a kind of paper from the pith of the papyrus plant, which grew in marshes near the river Nile. Papyrus

paper was made in long rolls, and the books written on it were rolled up, not cut into pages. One ancient book which is to be seen in the British Museum in London is a hundred and twenty feet long.

- (a) Name three different types of paper which are used in daily life?
- (b) Who invented paper?
- (c) Who were the first paper makers amongst men?
- (d) How do the wasps make paper walls of their nests?
- (e) Where can an ancient book which is one hundred and twenty feet long be seen?

3. Make a sentence of your own for each underlined word given in the following passage. (Do not copy any sentence from the given paragraph.) (10 Marks)

Education plays a very important role in the development of mankind. The mental and

intellectual development of a man takes place due to education. Without education man is like an Animal.

- (a)
- (b)
- (c)
- (d)
- (e)

4. Rearrange the jumbled words to form meaningful sentences. (10 Marks)

- (a) of exercise/the oldest form/walking/is/one/of
- (b) is excellent/an hour's walk/fit and fine/for keeping
- (c) than/friend/enemy a foolish/a wise/is better
- (d) to/doctor's advice/should/carefully/your/you/listen
- (e) vegetables/fresh fruits/sources/and/are vitamins/of minerals/and

5. Give one word for the following: (5 Marks)

- (a) One who makes furniture with wood
.....
- (b) One who designs buildings
.....
- (c) A place where wild animals are kept
.....
- (d) A place where Christians pray
.....
- (e) One who writes poems
.....

6. Choose the correct word from the brackets and fill in the blanks: (5 Marks)

- (a) These boys have been a great deal of noise. (make, makes, making)
- (b) Good children are by all. (like, liked, liking)

- (c) The cattle grazing in the field. (is, are, was)
- (d) It heavily last month. (rain, raining, rained)
- (e) My teacher told me to a letter. (write, wrote, written)

7. Use each of the word in separate sentences of your own to show the difference in the meaning of the words of the pairs given below: (10 Marks)

- (a) male, mail
- (b) pray, prey
- (c) break, brake
- (d) pour, pore
- (e) buy, by

8. Write the meaning of the following idioms and make meaningful sentences. (10 Marks)

- (a) Hand to hand
- (b) To and fro
- (c) Safe and sound
- (d) Off and on
- (e) By and by

9. You are Mohan, a resident of Janakpuri, Delhi. Write a letter to your friend requesting him to spend winter vacation with you. (10 Marks)

10. Look at the picture and write a story (at least 10 sentences) (10 Marks)



PAPER-II : INTELLIGENCE TEST

Max. Marks : 100

Time : 40 Minutes.

Directions (Qs. 1 to 5): Spot-out odd/extra/wrong number.

1. 256, 324, 289, 225, 144, 123.
 (a) 324 (b) 225
 (c) 144 (d) 123
2. 64, 36, 49, 25, 16, 13, 9.
 (a) 49 (b) 16
 (c) 13 (d) 25
3. 35, 28, 42, 49, 14, 53, 63.
 (a) 28 (b) 49
 (c) 53 (d) 63
4. 17, 23, 59, 31, 14, 13, 17.
 (a) 14 (b) 23
 (c) 59 (d) 31
5. 16, 18, 20, 12, 4, 8.
 (a) 16 (b) 18
 (c) 20 (d) 8

Directions (Qs. 6 to 10): In the following questions you have to find which one of the given five choices will come next in the series:

6. 31 7 25 13 19 19 13
 (a) 14 (b) 20
 (c) 25 (d) 30
7. 3 125 7 25 11 5 15
 (a) 19 (b) 16
 (c) 3 (d) 1
8. 4 $5\frac{1}{2}$ 7 $8\frac{1}{2}$ 10 $11\frac{1}{2}$
 (a) 12 (b) $12\frac{1}{2}$

- (c) 13 (d) $13\frac{1}{2}$
9. 7 53 21 48 63 43 189
 (a) 567 (b) 38
 (c) 48 (d) 42
10. 1 4 9 16 25 36
 (a) 37 (b) 40
 (c) 45 (d) 49

Directions (Qs. 11 to 15): For each of the following questions, four words have been given of which three are alike in some way and one is different. Find the odd word.

11. (a) Blue (b) Red
 (c) Yellow (d) Dark
12. (a) Hop (b) Dive
 (c) Jump (d) Fall
13. (a) Mother (b) Sister
 (c) Brother (d) Aunt
14. (a) Writer (b) Printer
 (c) Publisher (d) Reader
15. (a) Microphone (b) Microscope
 (c) Spectacles (d) Telescope

Directions (Qs. 16 to 20): In each of the questions below, find out the correct answer from the given alternatives.

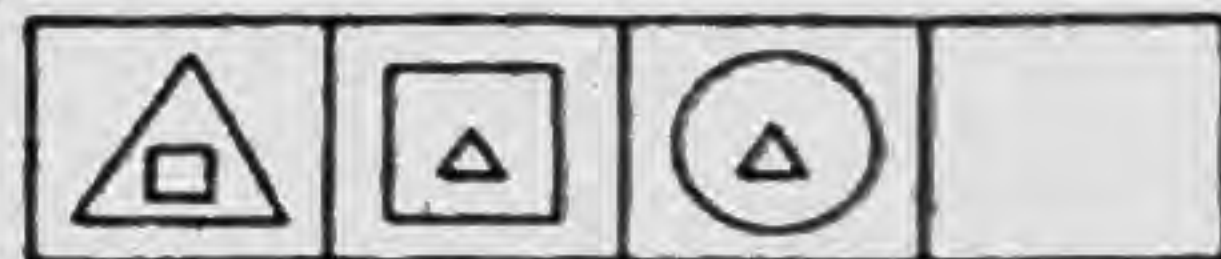
16. If FRIEND is coded as HUMJTK, how is CANDLE written in that code?
 (a) EDRIRL (b) DCQHQB
 (c) FROBOC (d) ESJFME

17. If in a certain code YELLOW is written as XFKMNX, how is COUNTRY coded?
 (a) DPVOSQX (b) BNTMSQX
 (c) BPTMSSX (d) AMSLRPW
18. If BATCH is coded as ABSDG, how is FORSAKE coded in that code?
 (a) ABDGS (b) EPQTZLD
 (c) EQPZLTD (d) GDSBA
19. In a certain code, RIPPLE is written as 613382 and LIFE is written as 8192. How is PILLER written in that code?
 (a) 318826 (b) 318286
 (c) 618826 (d) 328816
20. If PEOPLE is coded as PLPOEE, how is TREND coded?
 (a) TREDN (b) DNERT
 (c) NDETR (d) TNERD
21. 'Data Processing' is related to 'Raw Data' in the same way as 'University' is related to :
 (a) Teacher (b) Building
 (c) Students (d) Principal
22. 'Heart' is related to 'Blood' in the same way as 'Lung' is related to :
 (a) Oxygen (b) Chest
 (c) Purification (d) Air
23. 'Video' is related to 'Cassette' in the same way as 'Computer' is related to :
 (a) Reels (b) Recording
 (c) Files (d) Floppy
24. 'Much' is related to 'Many' in the same way as 'Measure' is related to :
 (a) Count (b) Calculate
 (c) Quantity (d) Weighs
25. 'Liberty' is related to 'Slavery' in the same way as 'Danger' is related to :
 (a) Safety (b) Dangerous
 (c) Anger (d) Stability
26. Some boys are sitting in a row. X is sitting 7th from right and Y is sitting 8th from. If there are 4 boys between X and Y. How many boys are there in the row?
 (a) 9 (b) 8
 (c) 10 (d) 7

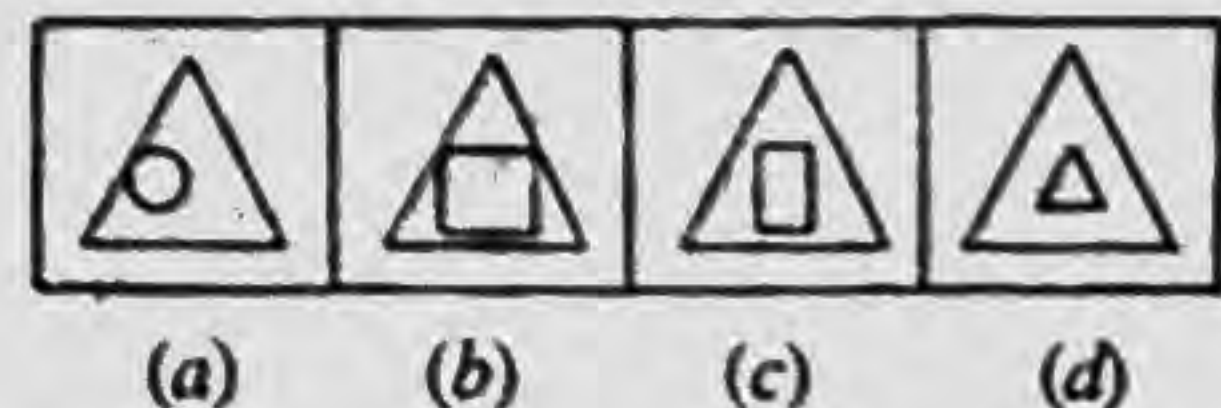
27. Pointing to the lady, Anuj said, "She is the sister of the father of my mother's son". Who is the lady to Anuj.
 (a) Niece (b) Mother
 (c) Aunt (d) Sister
28. Six boys are sitting in a circle facing the centre. Gopal is to the left of Sachin, Sourav is between Ashok and Vikas. Ravi is between Ashok and Gopal. Who is left of Vikas.
 (a) Gopal (b) Ravi
 (c) Ashok (d) Sachin
29. The day before yesterday was Saturday so tomorrow will be
 (a) Friday (b) Monday
 (c) Wednesday (d) Tuesday
30. The time on the watch is quarter to three. If the minute hand points to North-East. In which direction does the hour hand points.
 (a) South-East (b) South-West
 (c) North-East (d) North-West

Directions (Qs. 31 to 40): Each of the following questions consist of problem figures followed by answer figures. Select a figure from amongst the answer figures which will continue the same series or pattern as established by the problem figures.

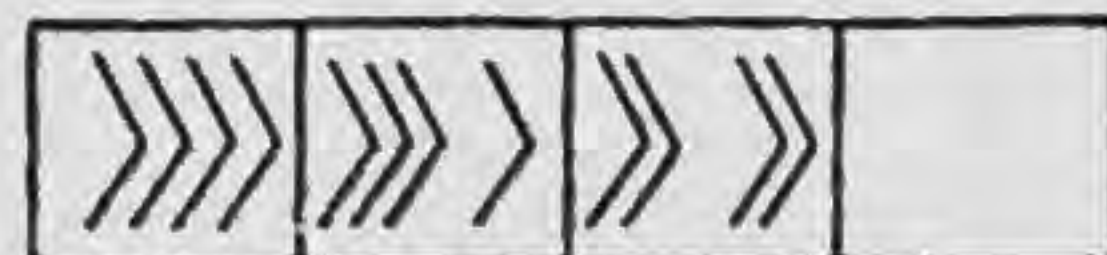
31. Problem Figures



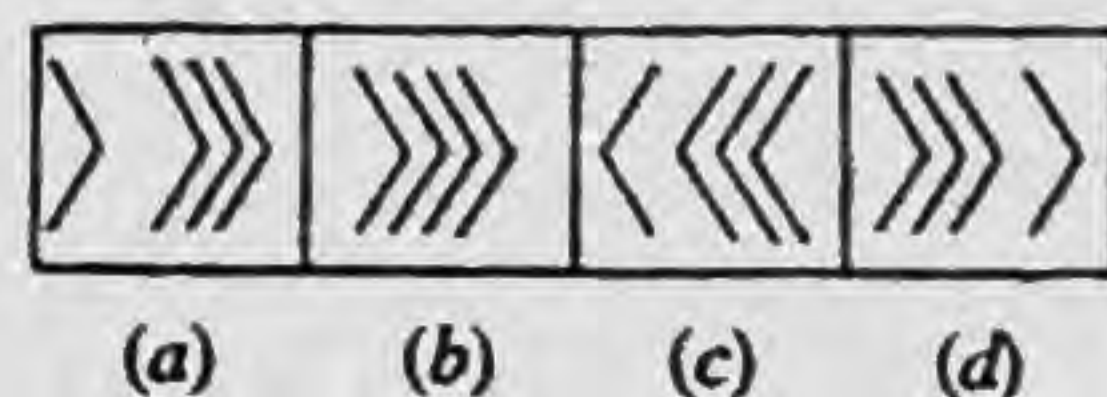
Answer Figures



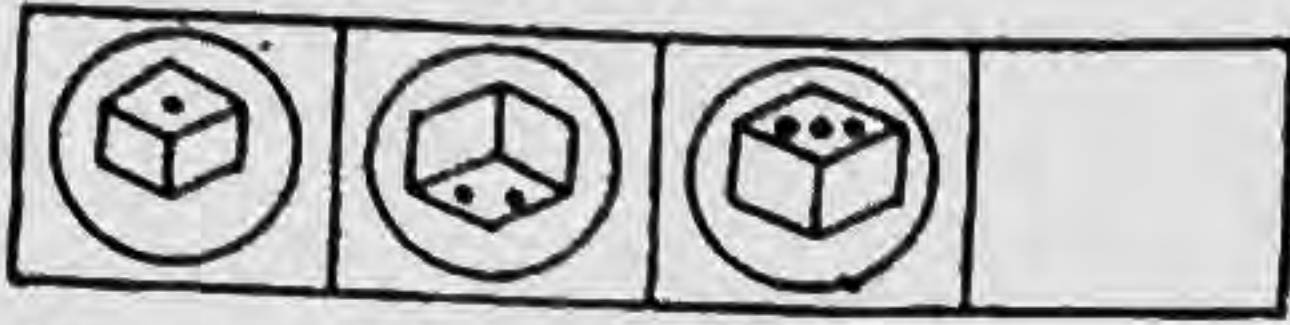
32. Problem Figures



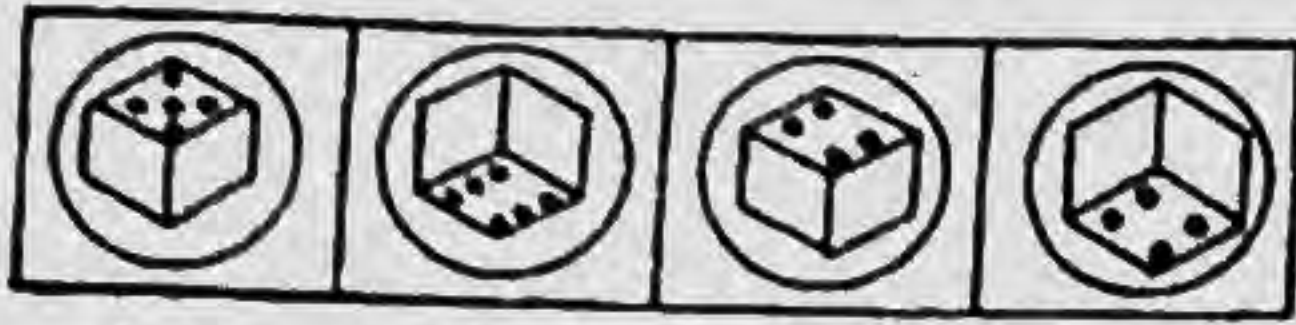
Answer Figures



33. Problem Figures

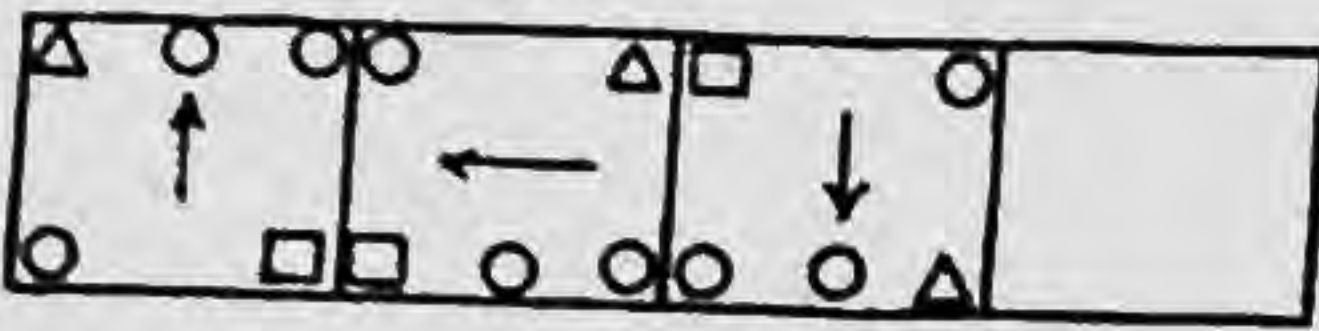


Answer Figures

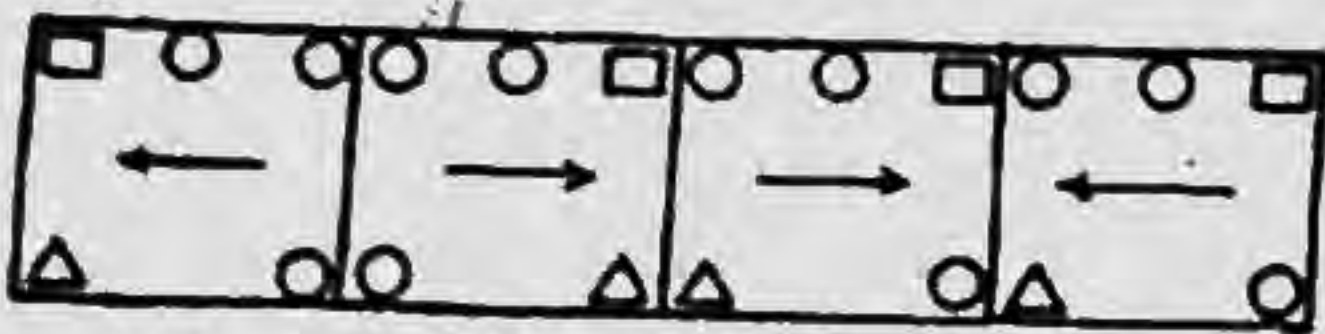


(a) (b) (c) (d)

34. Problem Figures

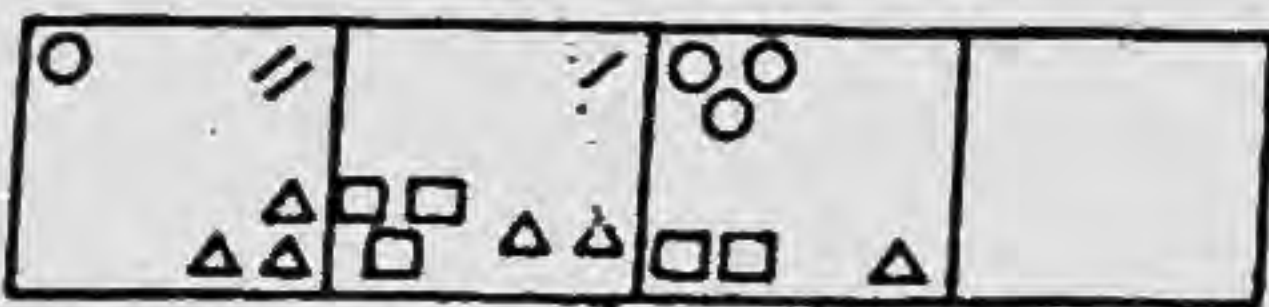


Answer Figures

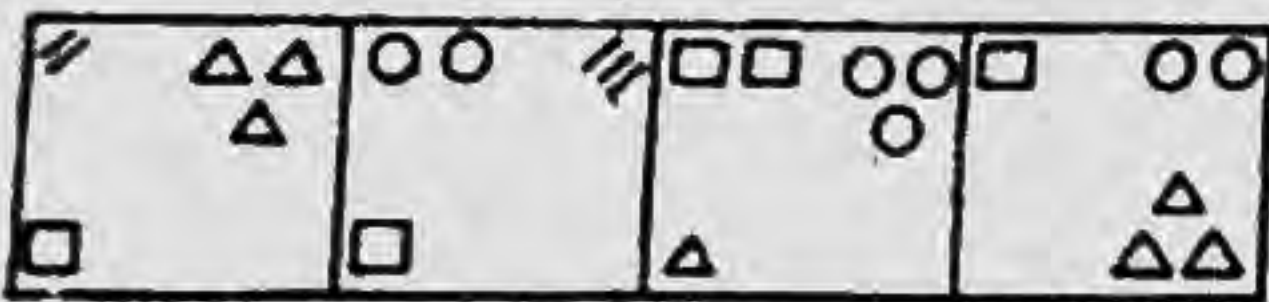


(a) (b) (c) (d)

35. Problem Figures



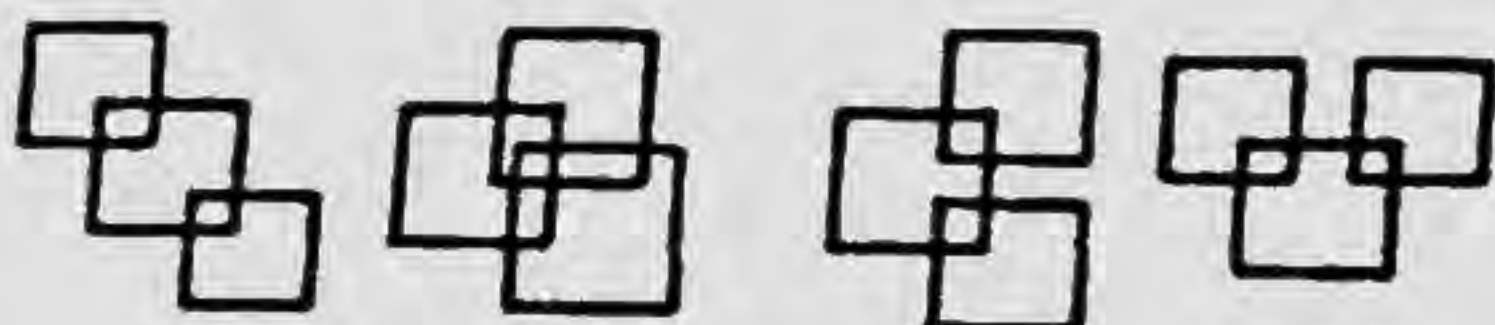
Answer Figures



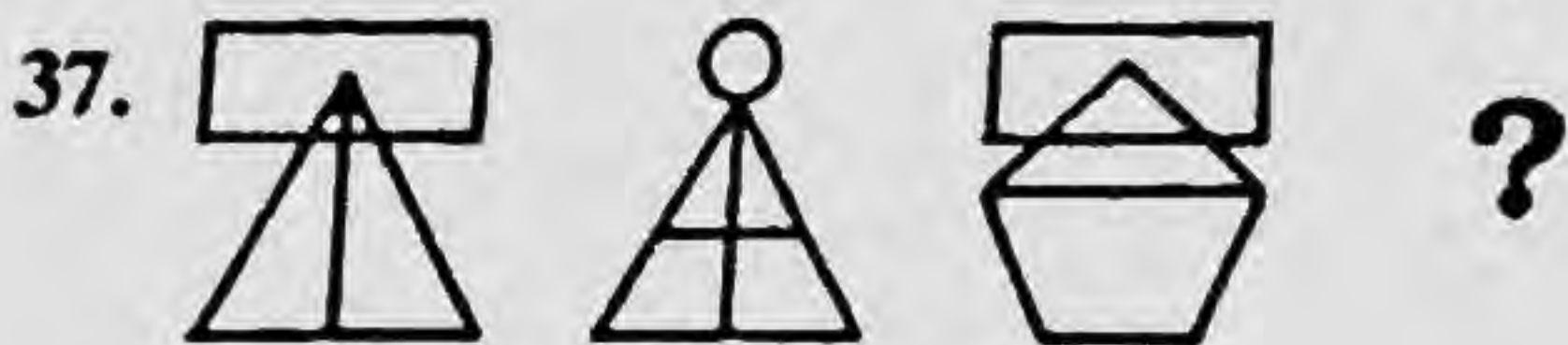
(a) (b) (c) (d)



A ISTO B AS C ISTO



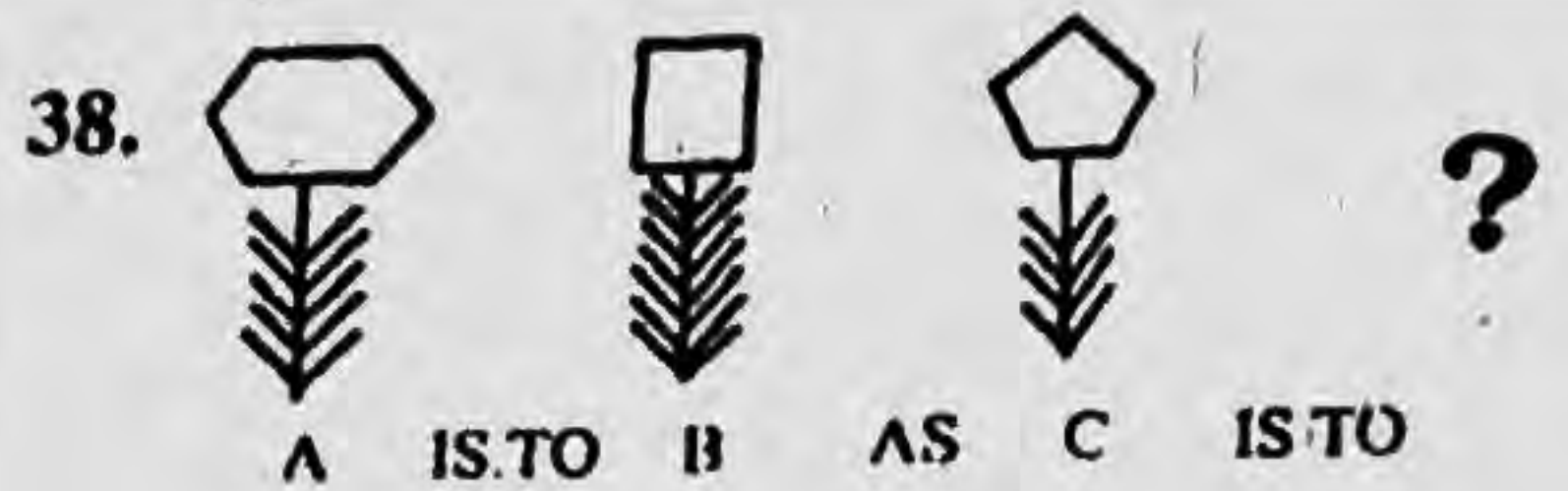
(a) (b) (c) (d)



A ISTO B AS C ISTO



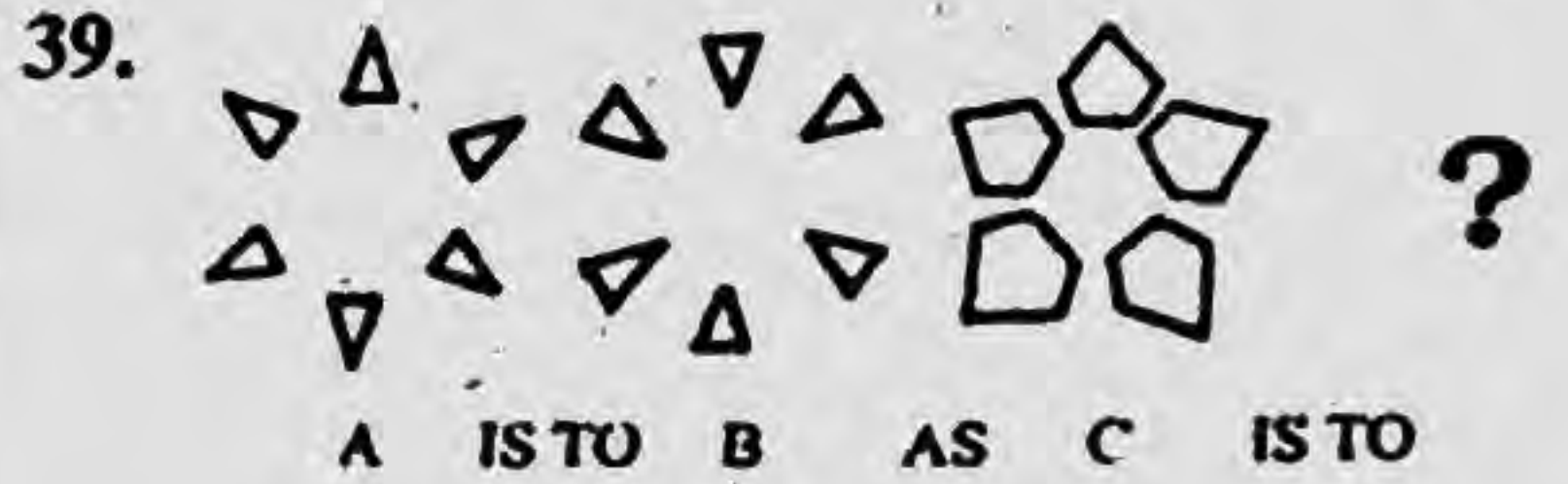
(a) (b) (c) (d)



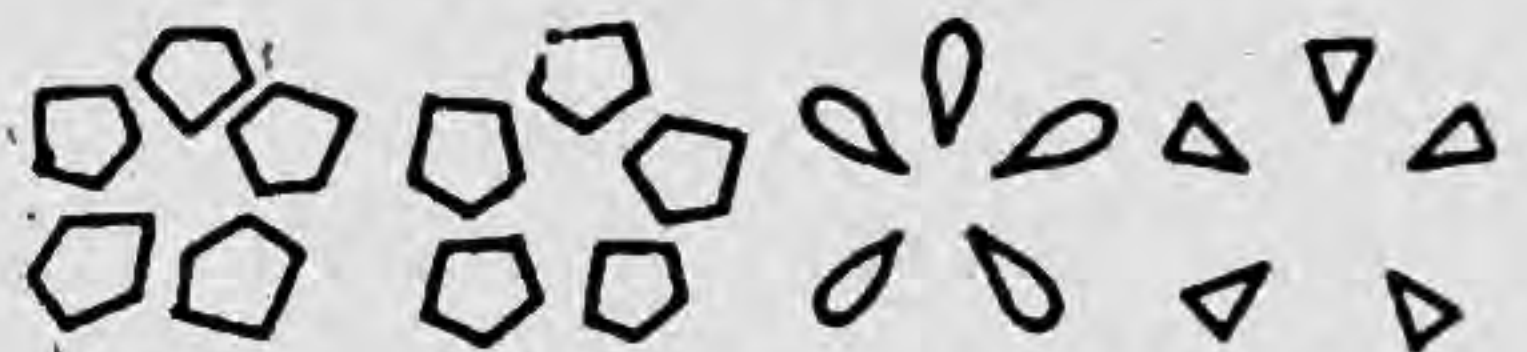
A ISTO B AS C ISTO



(a) (b) (c) (d)



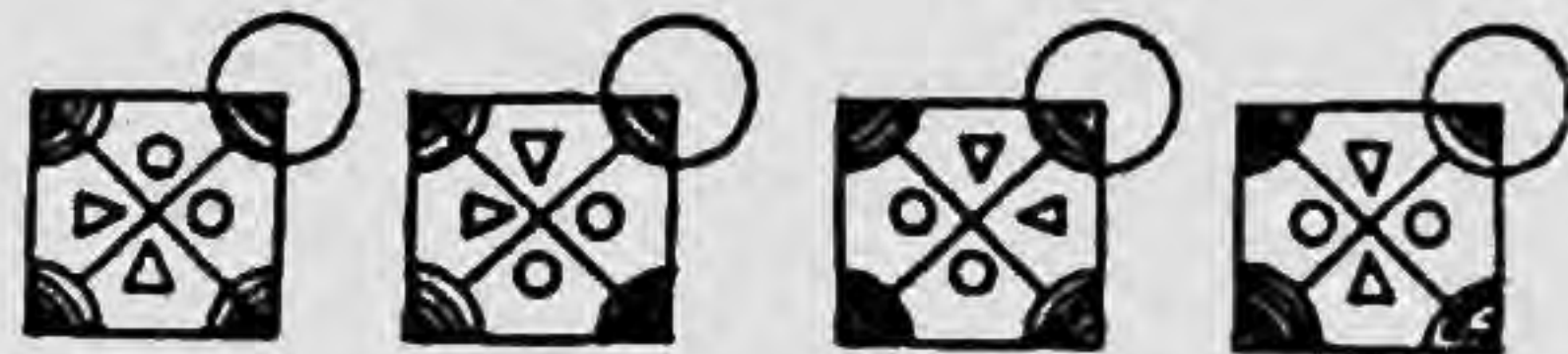
A ISTO B AS C ISTO



(a) (b) (c) (d)



A ISTO B AS C ISTO

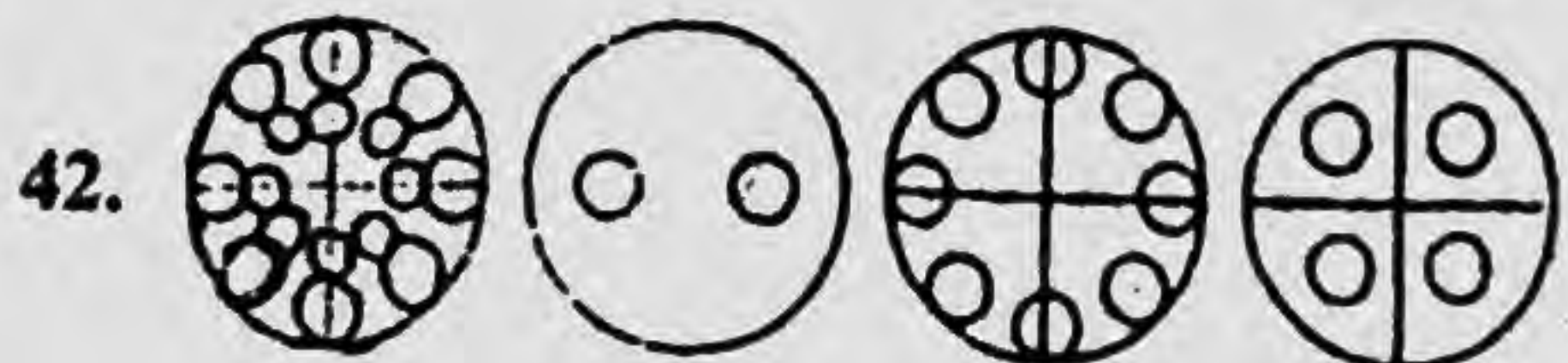


(a) (b) (c) (d)

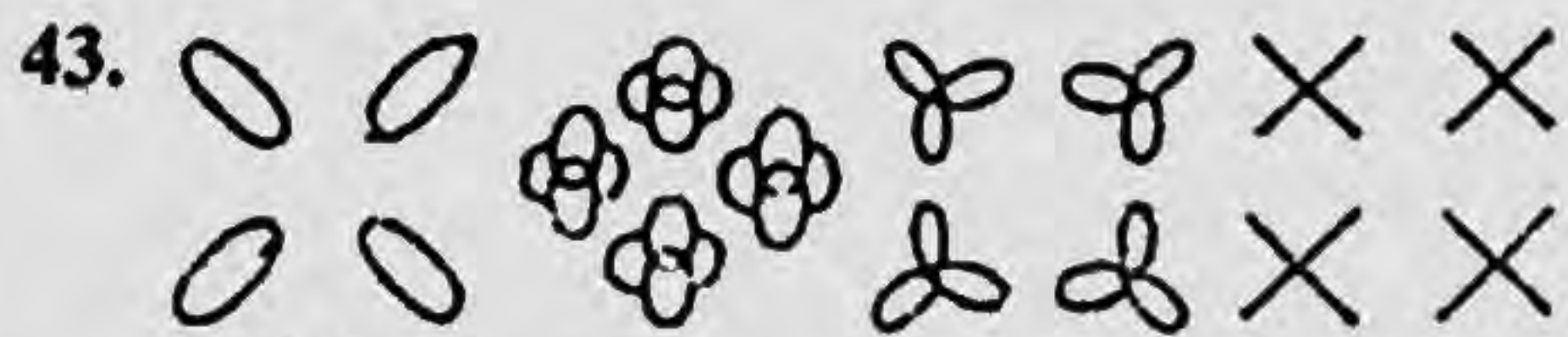
Directions (Qs. 41 to 45): In each of the following questions one of the figures is different from rest. Spot the figure.



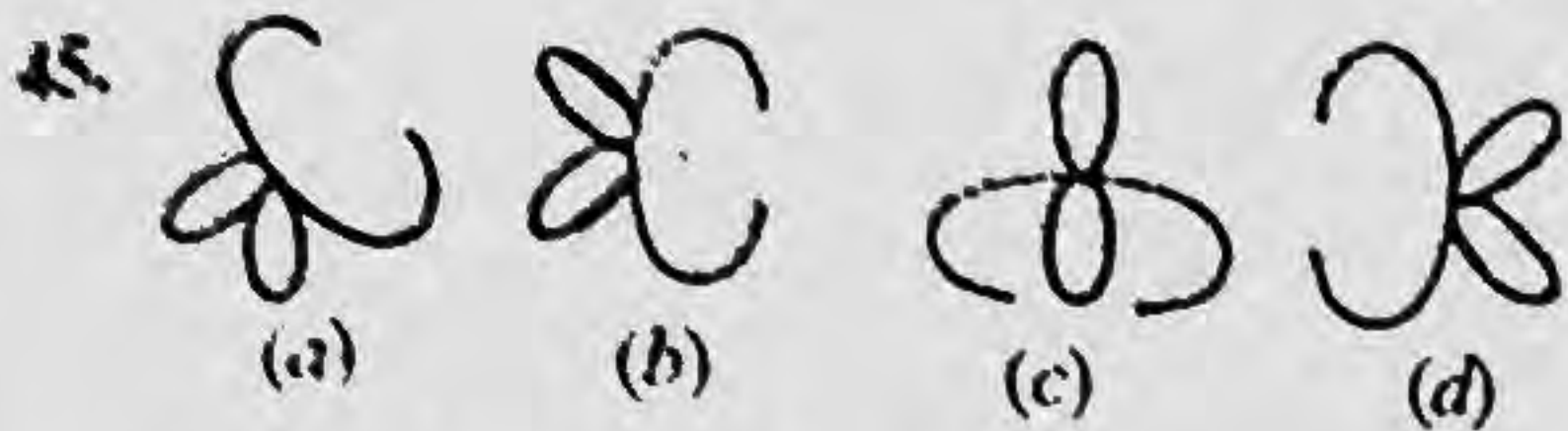
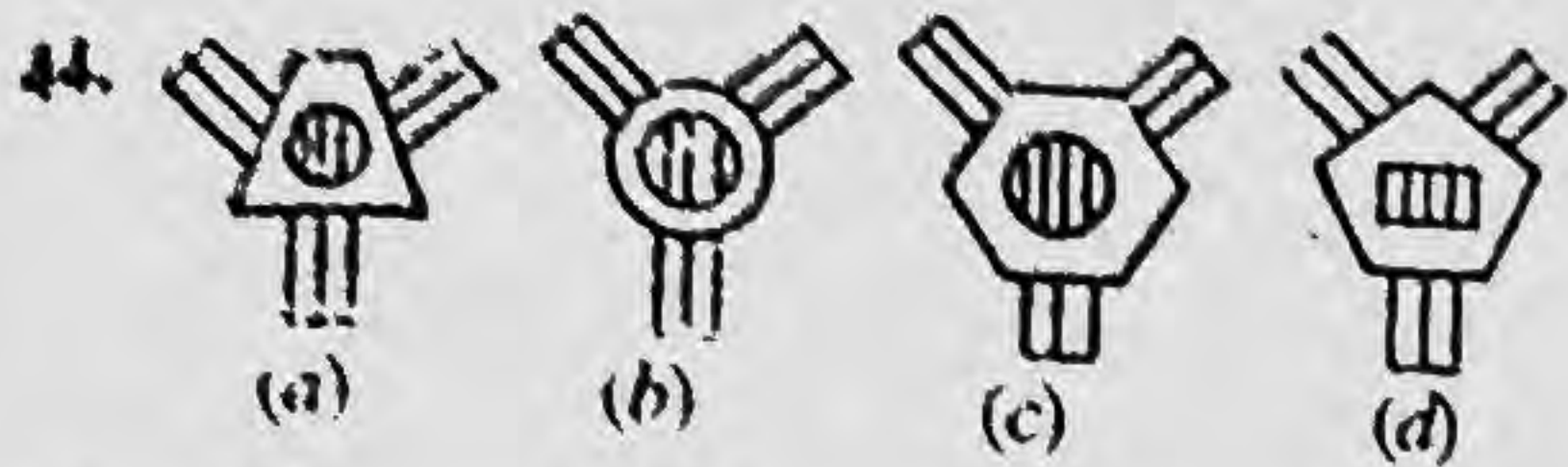
(a) (b) (c) (d)



(a) (b) (c) (d)



(a) (b) (c) (d)



Directions (Qs. 46 to 50): From the given answer figures, select the one in which the question figure is hidden/embedded?

