

PAPER-I : MATHEMATICS AND LANGUAGE

Time : 2 Hrs.

Max. Marks : 200

Part-A : Mathematics

Section-I

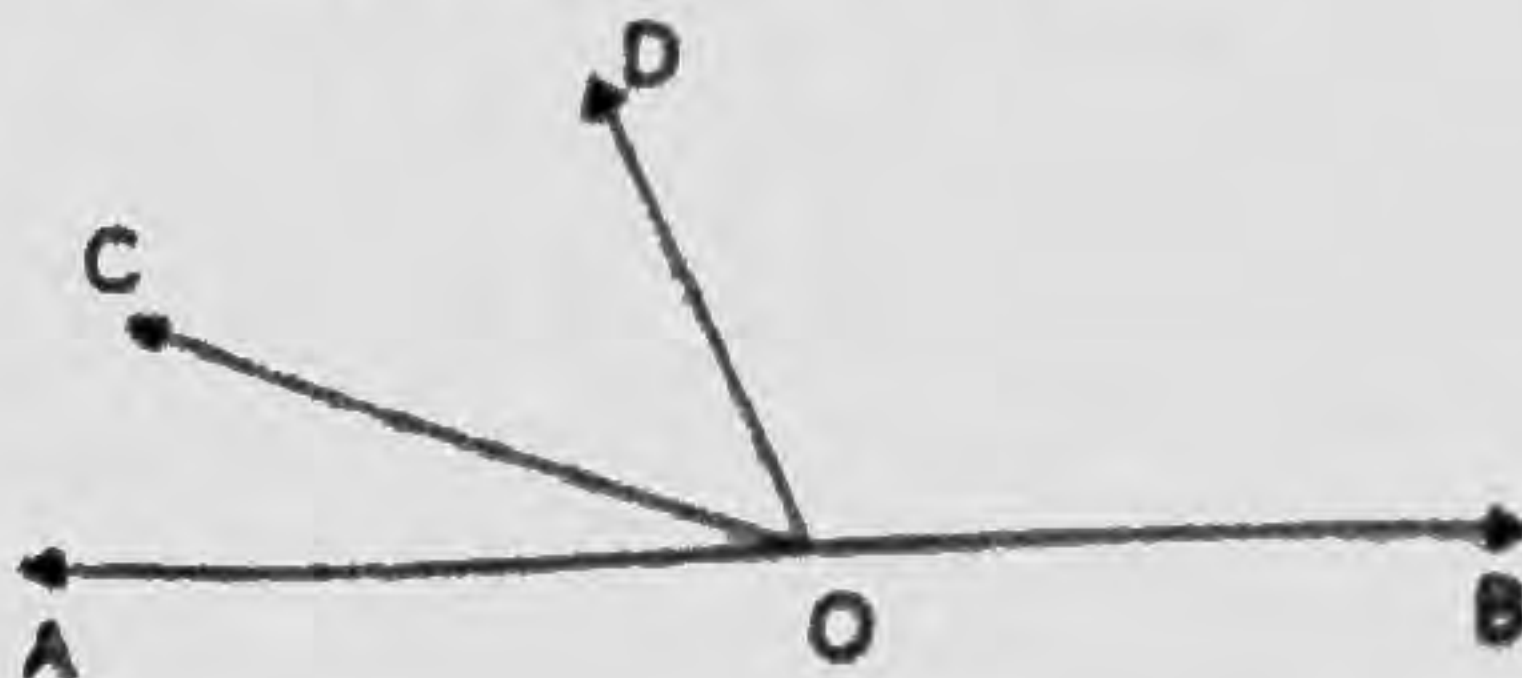
(Each question carries two marks.)

1. What is the LCM of two numbers if their HCF is 2 and the product is 112?
2. Write the Hindu-Arabic numerals for MDCL.
3. John had $2\frac{1}{2}$ Cake. His friends ate $1\frac{2}{3}$ of the Cake. How much of the Cake is left?
4. The dimensions of a rectangular field are 36 m and 24 m. Find the cost of fencing of the field if cost of wire is ₹ 4.50 per meter.
5. Find the average of first 9 prime numbers.

6. Simplify : $\frac{\frac{1}{5} + \frac{1}{5} \text{ of } \frac{1}{5}}{\frac{1}{5} \text{ of } \frac{1}{5} + \frac{1}{5}}$

7. A train covers 20 m in a second. Convert the speed of train in Km/h.
8. Form the greatest and smallest 4 digit numbers with digits 9, 3, 7 and 1.
9. Mayank bought a ball for ₹ 20. He sold it for ₹ 30 and again bought it back for ₹ 40. Again he sold it for ₹ 50. Did he gain or lose? By how much did he gain or lose?

10.



In the above figure if

$$\angle AOC = x$$

$$\angle COD = 2x$$

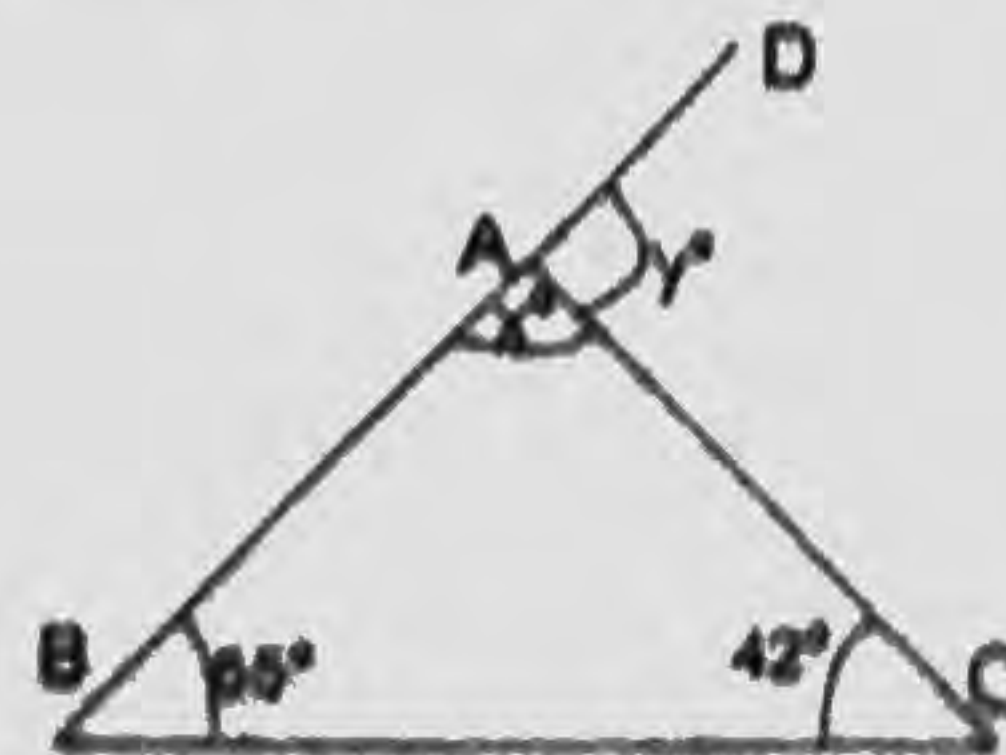
$$\angle BOD = 3x$$

Then find each angle in degree.

Section-II

(Each question carries three marks.)

11. Solve : $\frac{2}{7}$ of $[2 + (2(11 + \sqrt{4-2}))] - 2$
12. What percent is 200 grams of 4.5 kg?
13. If the simple interest on ₹ 12800 for a period of 2 years is ₹ 3840, then find the rate of interest per annum.
14. If the circumference of a circular park is 88 m, then find the area of the park.
15. Arrange the following in ascending order : $\frac{3}{7}, \frac{4}{5}, \frac{7}{9}, \frac{1}{2}$ and $\frac{3}{5}$.
16. Mohan, a student of Class-V secured 315 marks out of 450. Find marks in percentage.
17. In the given figure, what is the value of angles BAC (x°) and CAD (y°)?

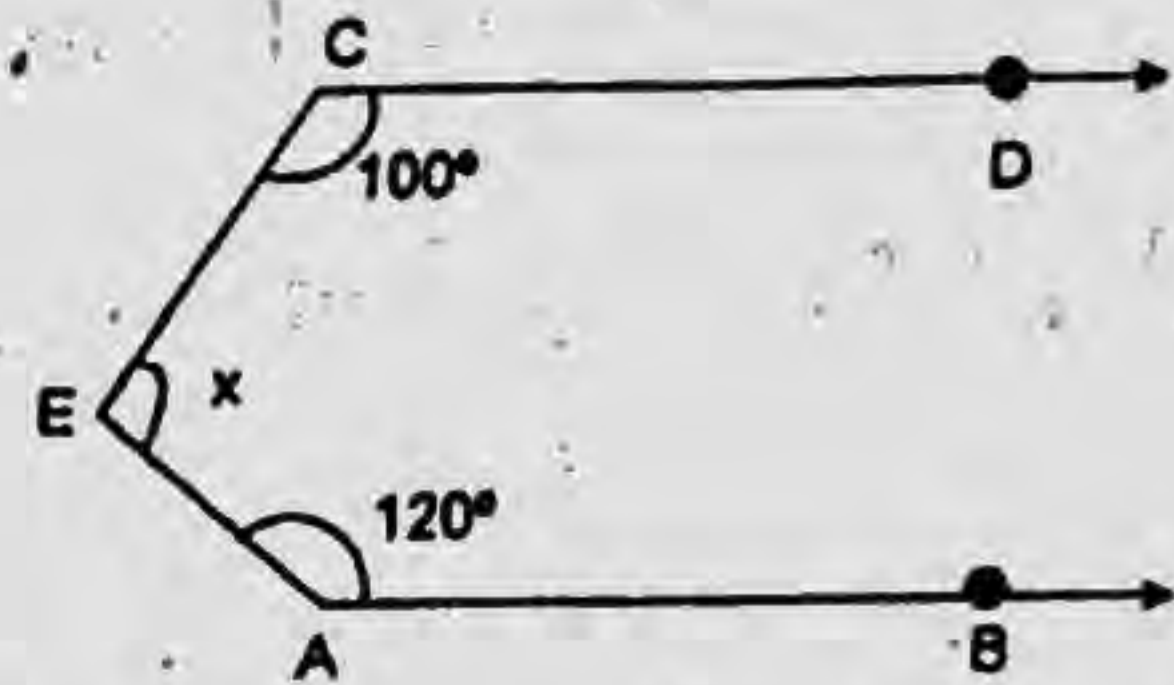


18. Sachin saved ₹ 400 each in the first and second months, ₹ 800 and ₹ 600 in the third and fourth months respectively. Find average monthly saving over the four months.
19. If average (mean) of the following marks obtained by students of Class-V is 35.
26 45 37 43 49 20 x 22 and 30.
Find unknown mark i.e. x .
20. Find : $1 - 2 + 3 - 4 + 5 - 6 + \dots + 19 - 20$.

Section-III

(Each question carries five marks.)

21. A rectangle and a square have the same perimeter 100 m. Find the side of the square if the rectangle has a breadth 2 m less than that of the square. Find breadth, length and area of the rectangle.
22. Rakesh completes one round of a running track in 8 minutes and Saroj completes it in 6 minutes. How long will it take for both to arrive again at their starting point together, if they start running at the same time and maintain their speed?
23. Akshita's dad needed a loan of ₹ 20,000 to buy a new car. Mr. Das, the Bank Manager agreed to give him the loan at 3% per annum. If the loan was to be paid back after 5 years, what total amount must he return to the bank?
24. Find the value of ' x ' for following figure if $AB \parallel CD$.



25. A Supermarket sells 19 oranges for ₹ 114, 6 Apples for ₹ 48, 22 Pomegranates for ₹ 154 and 17 Mangoes for ₹ 153. Which one of the fruits is the cheapest?
26. A rectangular grassy lawn measuring 48 m by 35 m is to be surrounded externally by a path, which is 2.5 m wide. Find the cost of leveling the path at the rate ₹ 4.50 per Sq. m.



27. One number exceeds another number by 36. If sum of both number is 48. Find the numbers.
28. Find the smallest number, having four different prime factors.
29. What sum of money will produce ₹ 143 interest in $3\frac{1}{4}$ years at $2\frac{1}{2}\%$ simple interest?
30. A brick measures 20 cm by 10 cm by $7\frac{1}{2}$ cm. How many bricks will be required for a wall 25 m long, 2 m high and $\frac{3}{4}$ m thick?

PART-B : LANGUAGE ABILITY

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

- (a) My Favourite Sportsperson
(b) Festivals of India

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

Ants are the most interesting of all insects because they are so like human beings in many ways. They live in families, build their own houses, and have a king and a 'queen'. Each ant has its own work to do and it does its work well. The very young ants who have just come out of their cocoons are generally the nurses. When they are older and their skins are harder, they are ready to leave the nest and do other kinds of work. Some of the ants hunt for food. Most other kinds of insects go about looking for food, but it is always for themselves alone. But the ants think of the nest. They bring in food for the queen and other workers as well as for themselves.

- (a) How are ants similar to human beings?
(b) What jobs are done by the very young ants?
(c) When do these very young ants leave the nest?
(d) Which word in the passage conveys the meaning – "a cover that keeps someone safe and warm".
(e) How are ants different from most other kinds of insects?

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)

Laughter is indicative of joy. A man who laughs radiates happiness and wins friends. Laughter can be the best tonic. A man who cannot laugh fails to attract friends, loses his health and deprives himself of any pleasure of life.

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

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

- (a) newspapers/very important/day to day life/in our/have become
(b) others/at/you/not/laugh/should
(c) smiles/full of/tears/is/life/and
(d) a/standing/the/fox/was/clever/tree/under
(e) the/west/in/the/sets/sun

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

- (a) A doctor who does operations
.....
(b) A bunch of flowers
.....
(c) A person who works with machines
.....
(d) Happening once a year
.....
(e) A house or shelter for a dog
.....

6. Choose the correct word/phrase from the brackets and fill in the blanks: (10 Marks)

- (a) He a new bicycle last week.
(bought, have bought, had bought)

- (b) It since early morning. (rained, is raining, has been raining)
- (c) He TV most evening. (is watch, watches, is watching)
- (d) I a lot of work today. (do, have done, had done)
- (e) He fast when the accident happened. (is driving, was driving, drove)

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) Dairy, Diary
- (b) There, Their
- (c) Tail, Tale
- (d) Peace, Piece
- (e) Weight, Wait

8. Write opposite words for the following:
(5 Marks)

- (a) Win
- (b) Refuse
- (c) Cruel
- (d) Ascending
- (e) Give

9. Change each of the following as directed:
(10 Marks)

- (a) It is going to rain.
(Change into Interrogative)
-
- (b) Mr Mukherji knows Chinese.
(Change into negative)
-
- (c) He knows me well.
(Change verb to past tense)
-
- (d) You are very smart.
(Change into Exclamatory)
-
- (e) The cat killed the mouse.
(Change into Passive Voice)
-

10. Your elder brother has sent you a birthday gift. Write a letter of Thanks to him.
(10 Marks)

PAPER-II : INTELLIGENCE TEST

Time : 40 Minutes.

Max. Marks : 100

Directions (Qs. 1 to 5): Out of the four choices: (A), (B), (C) and (D) given in each problem three are similar in one way. However one choice is not like the other three. Choose the choice which is different from the rest and write the answer in the answer box.

1. (a) Open & Close (b) Hate & Dislike
(c) Rise & Fall (d) Go & Come
2. (a) R5A1T6 (b) B2A1D4
(c) C3E5A1 (d) H8B2D4
3. (a) Far and Near
(b) Last and First
(c) Distance and Fare
(d) High and Low
4. (a) You (b) He
(c) She (d) Am

5. (a) 699 (b) 789
(c) 773 (d) 798

Directions (Q. 6 to 9): In each of the following questions, arrange the letters of each word then find fourth letter.

6. ENKAL (A BODY PART)
7. HCDNGRHAIA (A UNION TERRETORY)
.....
8. HEPES (AN ANIMAL)
9. NEGOAR (A FRUTT)
10. (a) Lion and Roar
(b) Elephant and Trumpet
(c) Snake and Hiss
(d) Dogs and Cook
11. (a) Cow and Goat
(b) Horse and Mare

- (c) Dog and Bitch
(d) Cock and Hen

Directions (Qs. 12 to 15): Choose the right answer and write the answer in the answer box.

12. Uncle is to Aunt as Cook is to
(a) Fowl (b) Hen
(c) Chicken (d) Duck
13. Wood is to table as is to coat
(a) Shirt (b) Wear
(c) Trouser (d) Cloth
14. Boy is to Girl as nephew is to
(a) Uncle (b) Niece
(c) Brother in law (d) Aunt
15. Fish is to Bird as submarine is to
(a) Ship (b) Train
(c) Aeroplane (d) Car
16. Disease : Pathology :: Planet : ?
(a) Sun (b) Stars
(c) Astrology (d) Astronomy
17. Waiting : Boredom :: Education : ?
(a) Class
(b) Enlightenment
(c) Schooling
(d) Cunning
18. Light : Sun :: Heat : ?
(a) Electricity (b) Moon
(c) Fire (d) Star

Directions (Qs. 19 to 22): Below are given numbers/alphabets/figures followed by 4 answer choices marked as A, B, C and D. Choose a correct answer option, which will continue the series.

19. 246, 357, 468, 579
(a) 759 (b) 690
(c) 678 (d) 459
20. A/2, 4/C, E/6
(a) 8/G (b) 8/K
(c) 7/G (d) G/8
21. B, D, G, K
(a) P (b) A
(c) O (d) N

22. 1243, 2354, 3465,
(a) 4576 (b) 4675
(c) 4796 (d) 4367
23. C - 3, E - 6, G - 12, I - 24, K - 48, ?
(a) S - 48 (b) M - 96
(c) L - 96 (d) O - 48
24. 3, 6, 8, 16, 18,
(a) 28 (b) 36
(c) 54 (d) 34
25. KPA, LQB, MRC, NSD, ?
(a) UOT (b) OTE
(c) EOT (d) TOE
26. If CHAIR is coded as FKDLU, then RAID is coded as:
(a) ULGD (b) ULKG
(c) ULDG (d) UDLG
27. If "grey" is called "brown", "white" is called "pink", "red" is called "grey", "black" is called "red", "brown" is called "white", what is the colour of "coal"?
(a) brown (b) red
(c) black (d) pink
28. If $5 \times 8 = 28$, $3 \times 7 = 12$, $8 \times 6 = 35$, then find the value of 13×13 ?
(a) 169 (b) 130
(c) 140 (d) 144
29. If TOUR is written as 1234, CLEAR is written as 56784 and SPARE is written as 90847, find the code for CARE?
(a) 1247 (b) 4847
(c) 5247 (d) 5847
30. If RAJI has been coded as TCLK, then what would be the code for KLCT?
(a) MENV (b) RAJI
(c) MNFV (d) MNEV

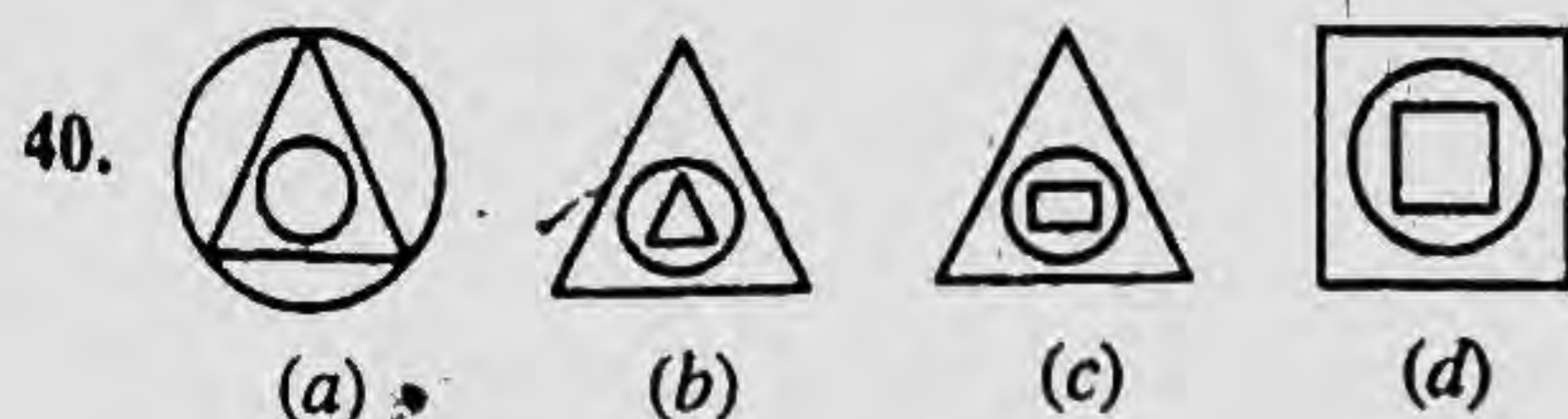
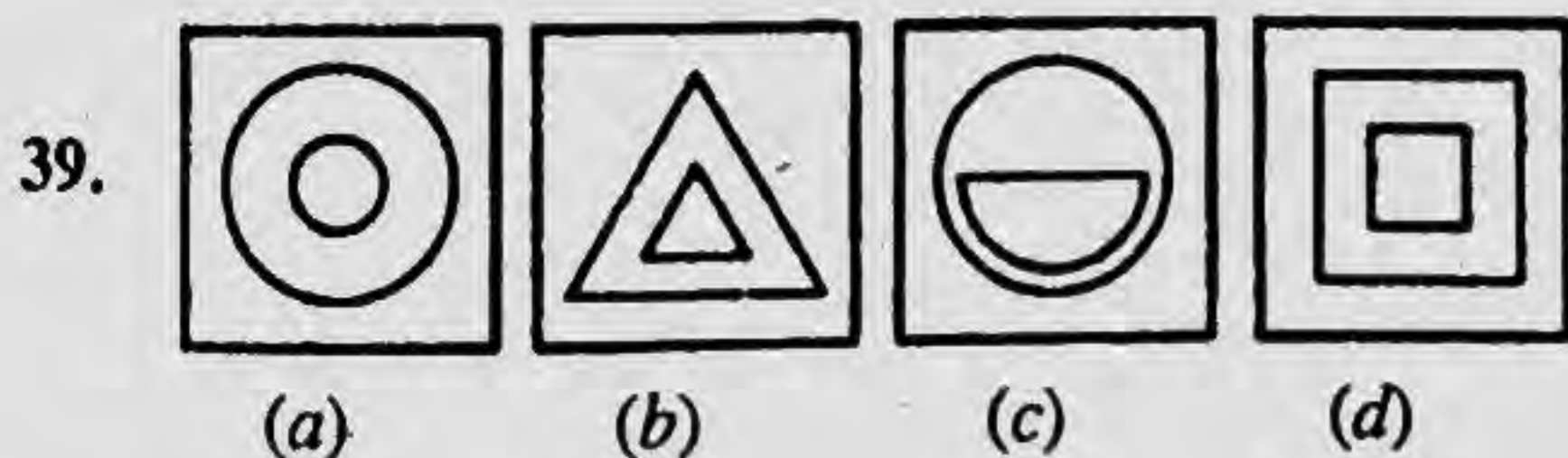
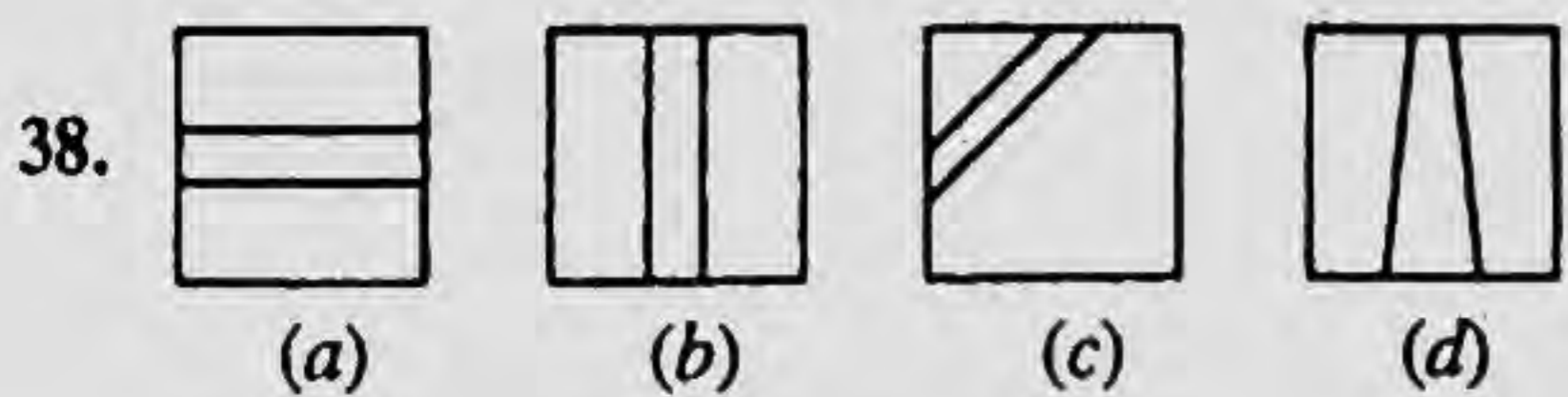
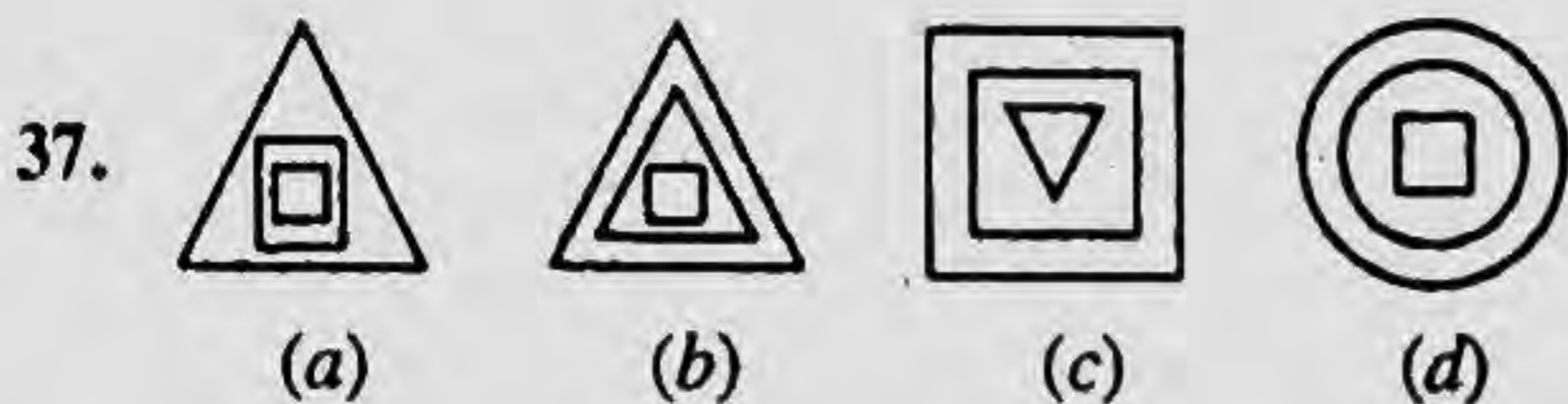
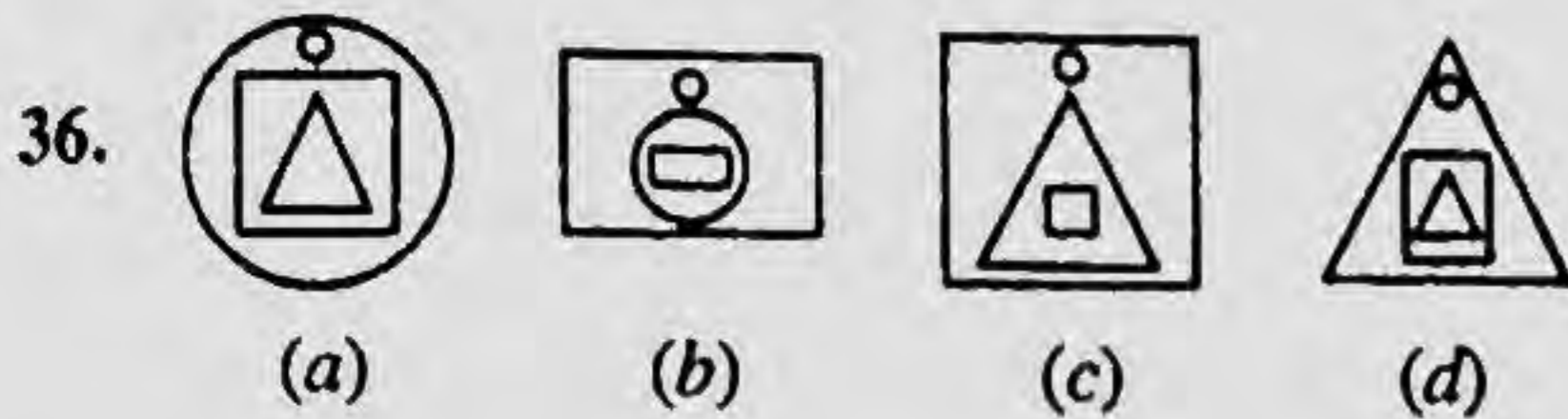
Directions (Qs. 31 & 32): Choose the word, which will come third in the dictionary and write the answer in answer box.

31. (a) Battalion (b) Barrister
(c) Banana (d) Balance
32. (a) Dear (b) Decide
(c) Diagram (d) Departure

33. If \div means \times , \times means $+$, $+$ means $-$ and $-$ means \div . Find the value of $16 \times 3 + 5 - 2 \div 4$
- (a) 19 (b) 10
(c) 9 (d) 13
34. What is common in hydrometer, lactometer and manometer?
- (a) They are units of measurement
(b) They are instruments
(c) They are scales
(d) They are equipments used in physics

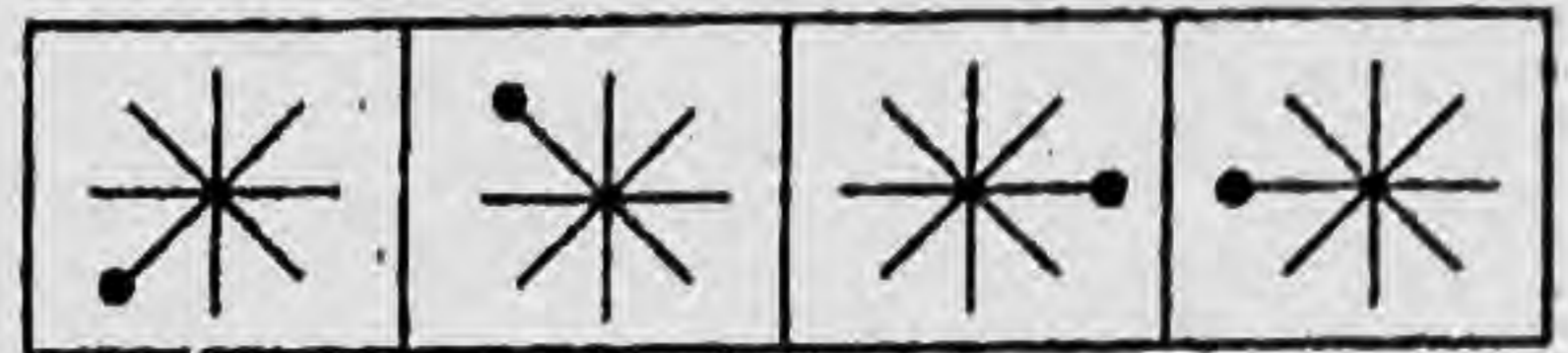
35. What is common in Bauxite, Iron, Tungsten and Monazite?
- (a) They are all minerals
(b) They are all metals
(c) They are all chemicals
(d) None of these

Directions (Qs. 36-40): In each of the following sets of figures, select the one that is different from the rest.

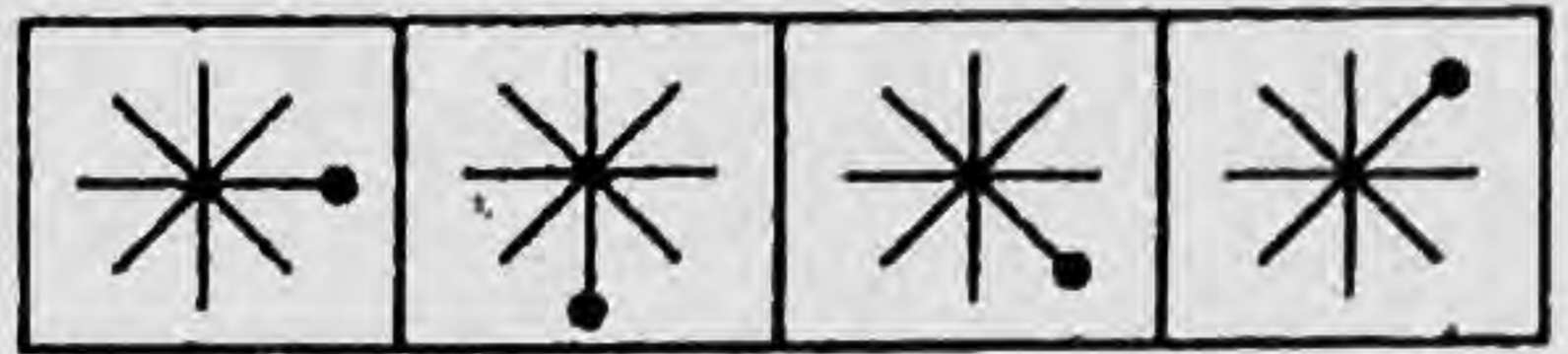


Directions (Qs. 41-45): Each of the following questions consists of unmarked figures followed by four figures mark (a), (b), (c) and (d). Select a figure from the marked figures which will continue the series established by the unmarked figures.

41. Problem Figures

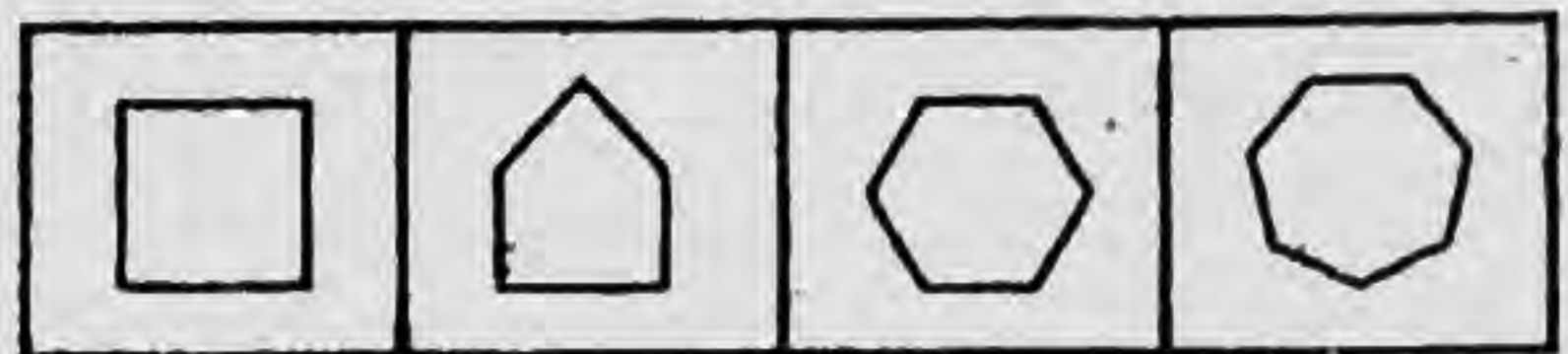


Answer Figures

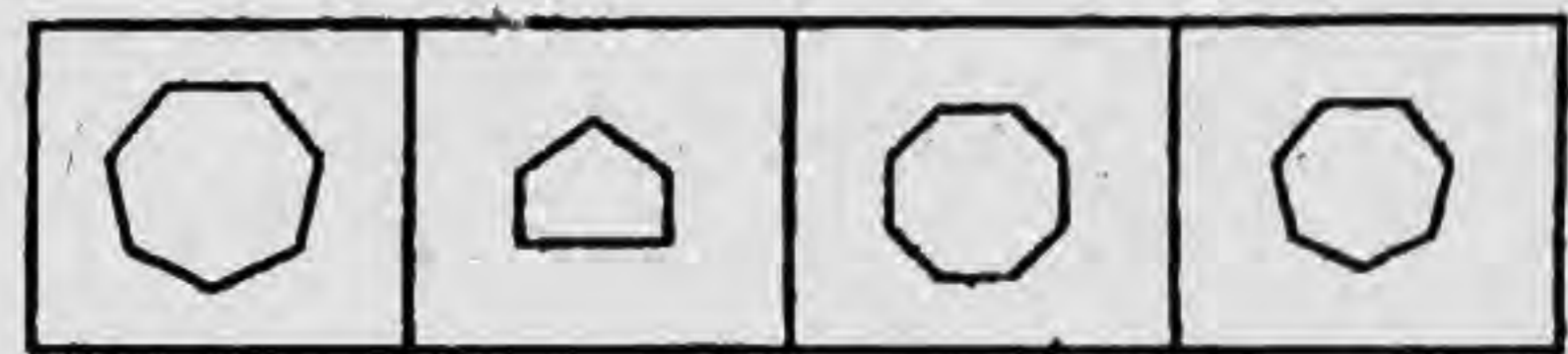


(a) (b) (c) (d)

42. Problem Figures

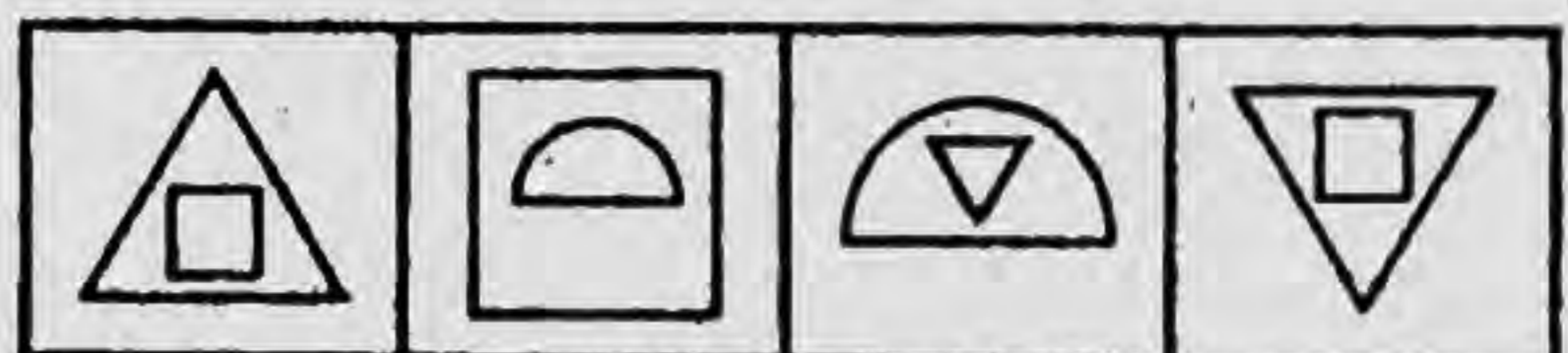


Answer Figures

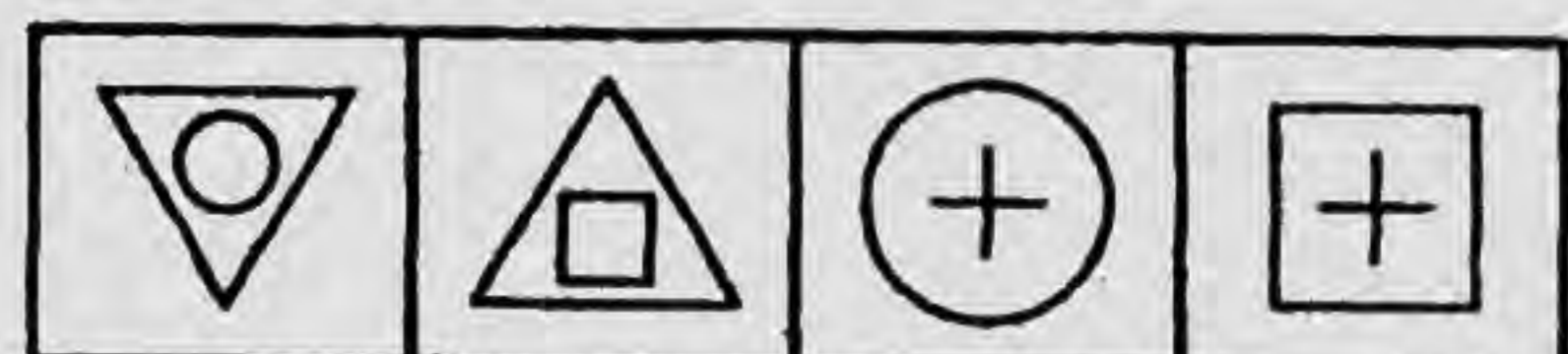


(a) (b) (c) (d)

43. Problem Figures

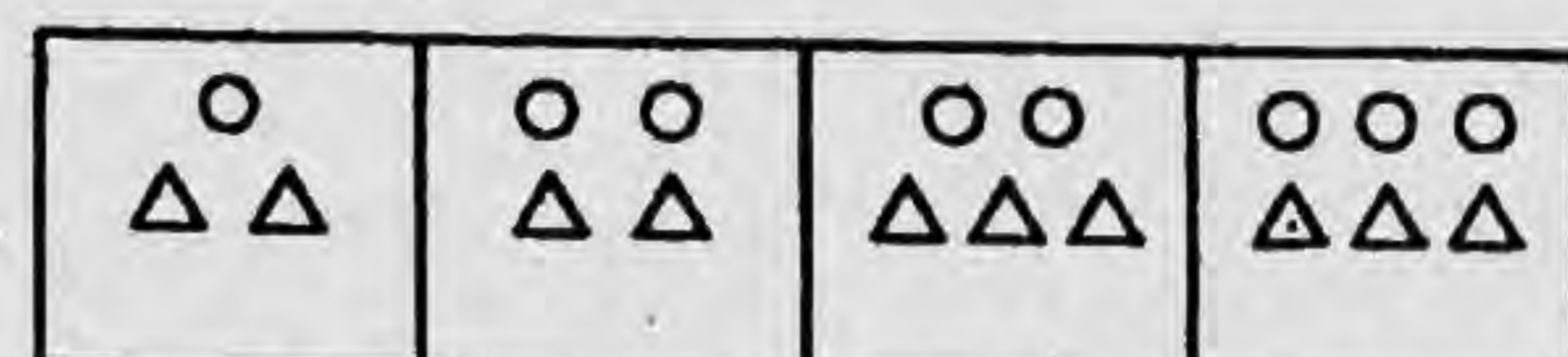


Answer Figures

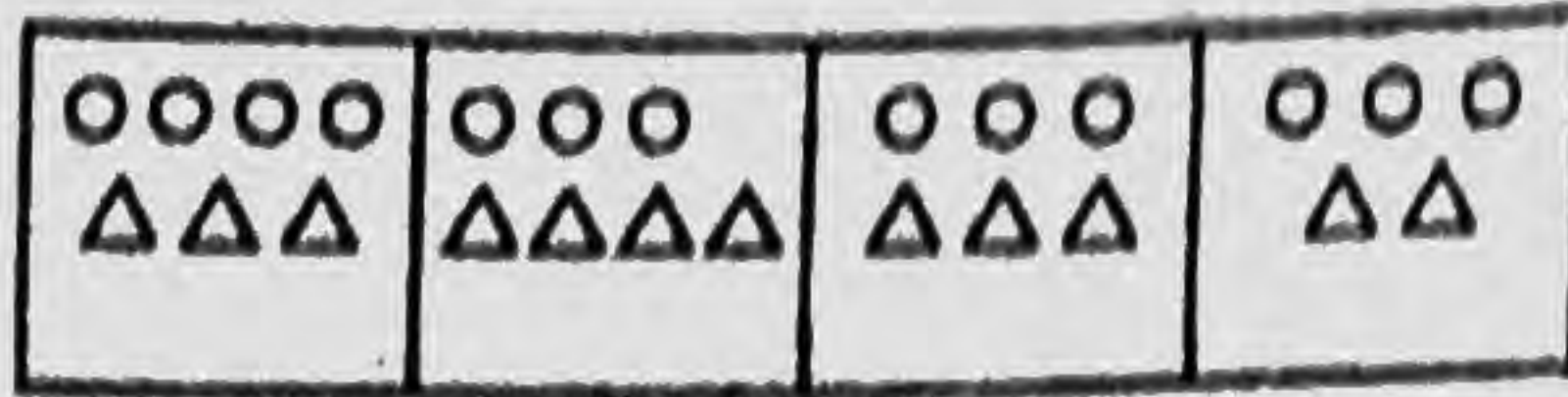


(a) (b) (c) (d)

44. Problem Figures

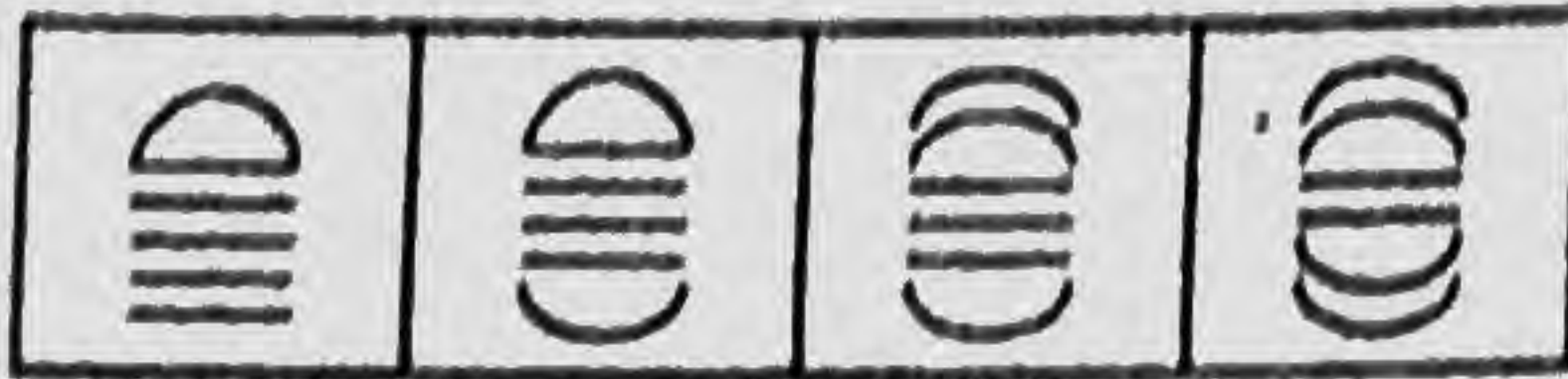


Answer Figures

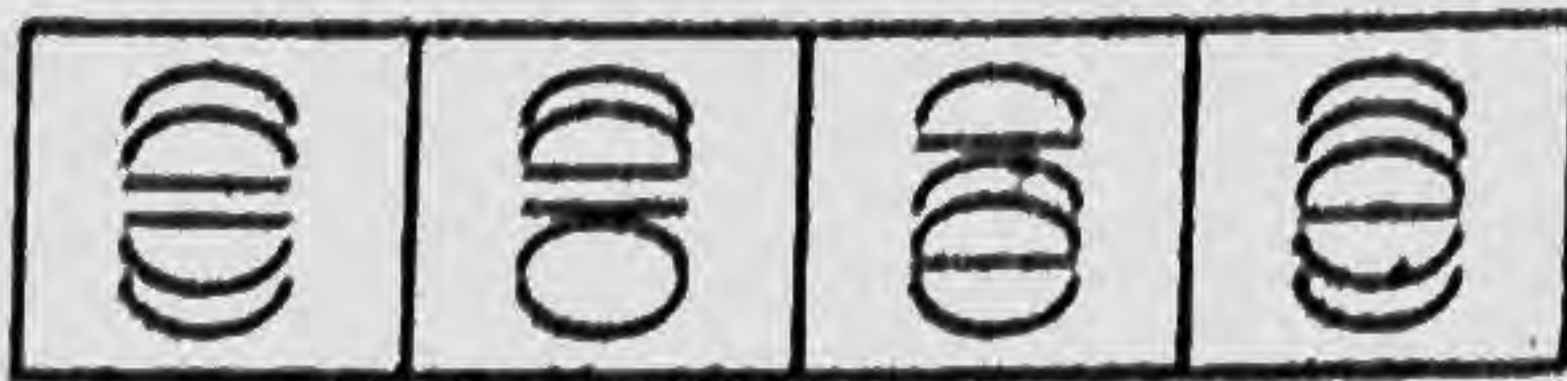


(a) (b) (c) (d)

45. Problem Figures



Answer Figures



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

Directions (Qs. 46 to 50): In each question, which one of the alternative figures will complete the given figure pattern?



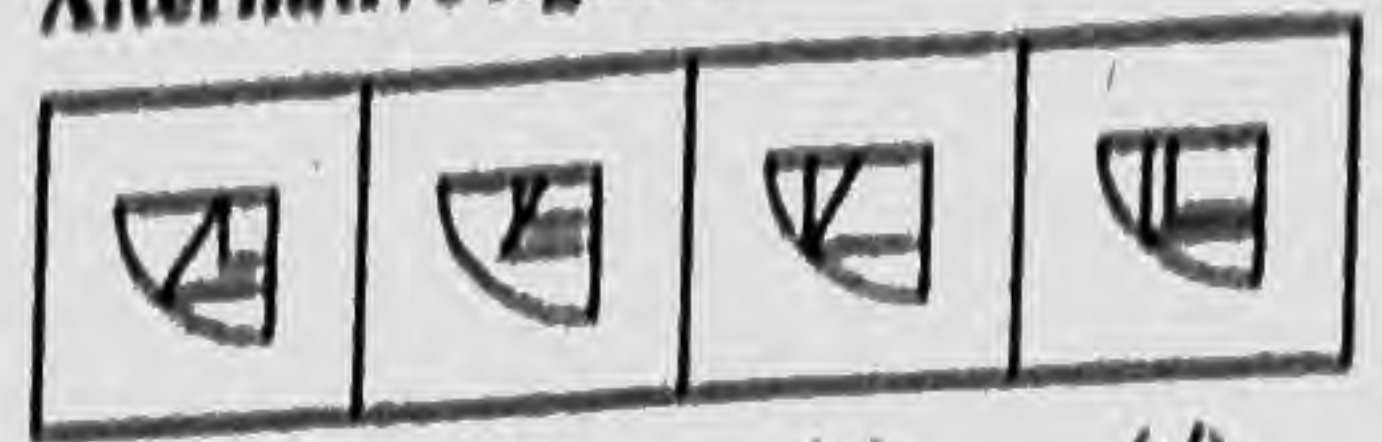
Alternative figures



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

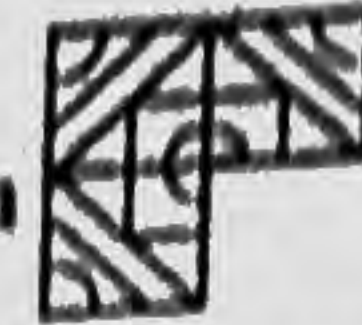


Alternative figures

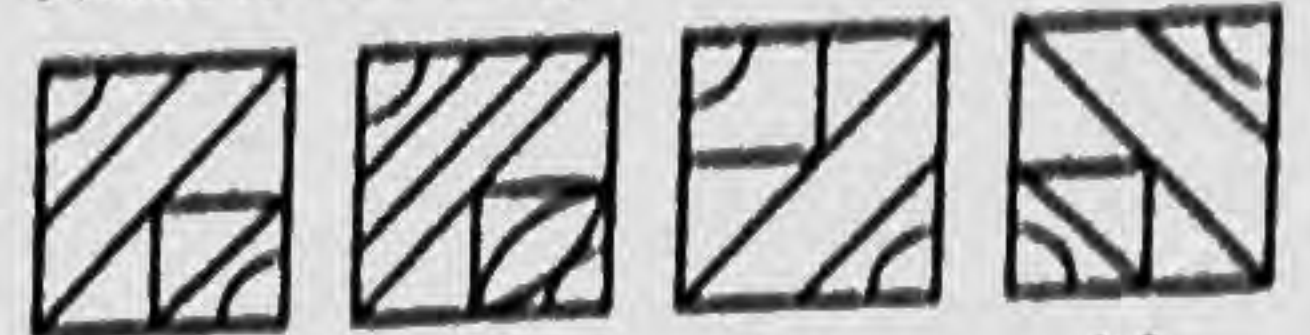


(a) (b) (c) (d)

48. Pattern

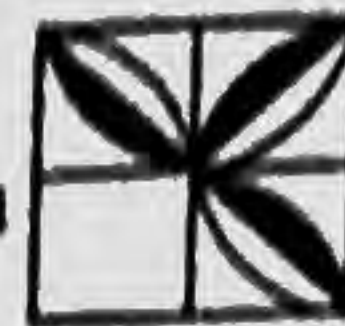


Alternative figures

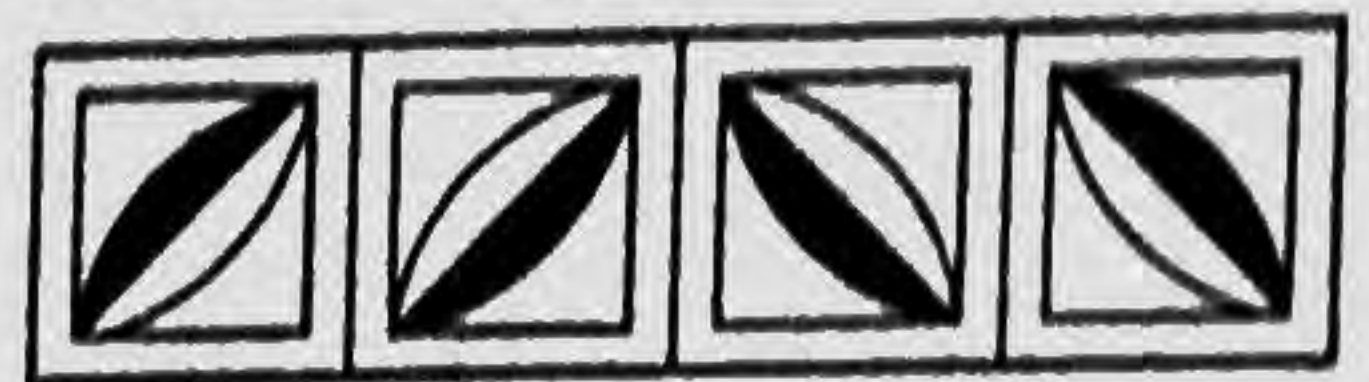


(a) (b) (c) (d)

49. Pattern



Alternative figures

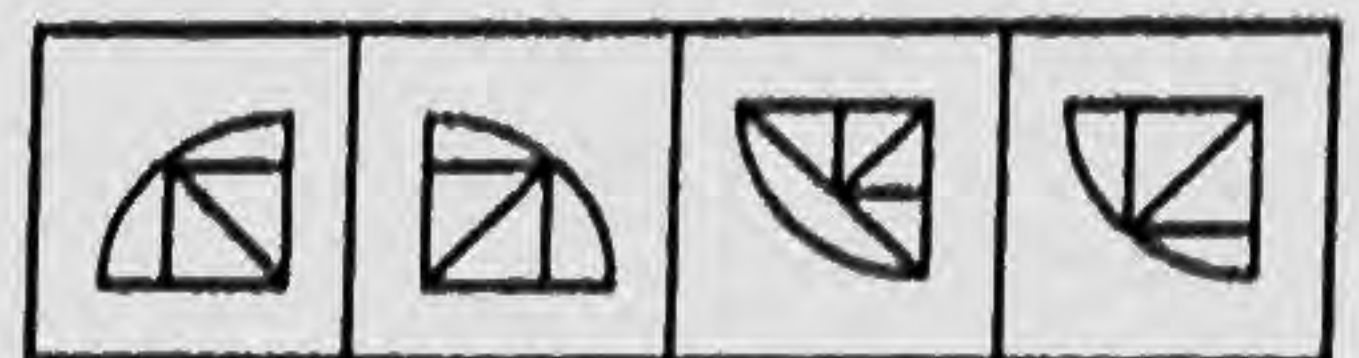


(a) (b) (c) (d)

50. Pattern



Alternative figures



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