

International Olympiad Foundation (IOF)  
(IOLYMPIADS LLP)

Certifying Talents Across World



Question Paper &  
Answer Sheet  
**CLASS - 6**

 **IFRAO**

International Foundation  
Reasoning & Aptitude  
Olympiad

**International Foundation**  
**Reasoning & Aptitude Olympiad(IFRAO)**  
**CLASS -6**  
**PAPER - 2021**

**SECTION-A**  
**Verbal Reasoning**

- In the question, a letter series is given in which some of the letters are missing. The missing letters are given in that order as one of the alternatives below it. Choose the correct alternative.  
b\_a\_\_c\_a\_b\_a\_b\_c\_a\_b  
A. c b b b c b  
B. a b c a b c  
C. c a b c b c  
D. c b a c b a
- In the question three of the following four are alike in a certain way and so form a group. Which is the one that does not belong to that group?  
A. Carbon  
B. Copper  
C. Silver  
D. Gold
- In the question four groups of letters are given. Three of them are alike in a certain way while one is different. Choose the odd one.  
A. XW  
B. FG  
C. ML  
D. PO
- The question consists of two words that have a certain relationship to each other. Select the pair from amongst the four given pairs of words which has the same relationship as the original one.  
Dove : Peace :: ? : ?  
A. Crow : Scavenge  
B. Knife : Cut  
C. Lull : Storm  
D. Pearl : Purity
- If CIGARETTE is coded as GICERAETT, then DIRECTION will be coded as  
A. RIDTCENOI  
B. NORTECDII  
C. NOIETCRID  
D. IRDCTIONE
- In a certain code GARIMA is written as 725432 and TINA as 6482. How is MARTINA written in that code?  
A. 3256482  
B. 3265842  
C. 3645862  
D. 3658426

7. If white is called blue, blue is called red, red is called yellow, yellow is called green, green is called black, black is called violet and violet is called orange, what would be the colour of human blood?

- A. Red
- B. Green
- C. Yellow
- D. Violet

8. In the certain code language, 'Mink Young Pe' means 'Fruits are ripe'; 'Pe Lao May Mink' means 'Oranges are not ripe' and 'May Pe Nue Mink' means 'Mangoes are not ripe'. Which word in that language means 'Mangoes'?

- A. May
- B. Pe
- C. Nue
- D. Mink

9. Introducing a man, a woman said, "He is the only son of my mother's mother" How is the woman related to the man?

- A. Mother
- B. Aunt
- C. Sister
- D. Niece

10. A child is looking for his father. He went 90 metres in the east before turning to his right. He went 20 metres before turning to his right again to look for his father at his uncle's place 30 metres from this point. His father was not there. From there he went 100 metres to his north before meeting his father in a street. How far did the son meet his father from the starting point ?

- A. 80 metres
- B. 100 metres
- C. 140 metres
- D. 260 metres

11. Arrange the given words in alphabetical order and choose the one that comes first.

- A. Probe
- B. Proclaim
- C. Proceed
- D. Probate

12. Arrange the given words in alphabetical order and tick the one that comes in the last.

- A. Alive
- B. Afforest
- C. Anticipate
- D. Appreciate

13. In the question, arrange the given words in the sequence in which they occur in the dictionary and they choose the correct sequence.

1. Meeta    2. Mother    3. Meets    4. Me    5. Many
- A. 5, 4, 1, 3, 2
  - B. 5, 4, 3, 1, 2
  - C. 2, 1, 4, 5, 3
  - D. 5, 1, 4, 3, 2

14. Find which one word cannot be made from the letters of the given word.

FLEXIGERATOR

- A. TAXI
- B. GREATER
- C. LARGER
- D. XEROX

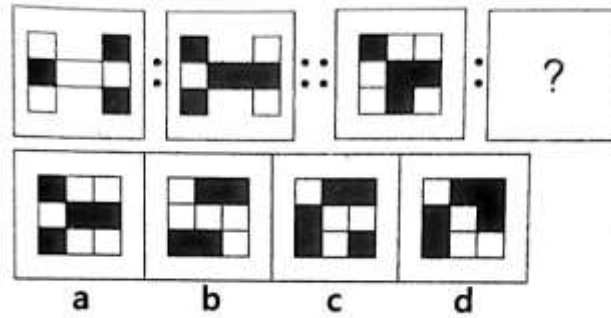


15. Choose one word which can be formed from the letters of the given word.  
CONSTANTINOPLE
- A. CONTINUE                      B. CONSCIENCE  
C. CONSTANCE                    D. CONTENT
16. If it is possible to make a meaningful word with the second, the fifth and the eighth letters of the word 'CARETAKER', which of the following will be the first letter of that word? If no such word can be made, give X as the answer. If more than one such word can be made, give M as the answer.
- A. A                                  B. M  
C. T                                  D. X
17. Aruna ranks twelfth in a class of forty-six. What will be her rank from the last?
- A. 33                                  B. 34  
C. 35                                  D. 37
18. In a row of ten boys, when Rohit was shifted by two places towards the left, he became seventh from the left end. What was his earlier position from the right end of the row?
- A. First                              B. Second  
C. Fourth                            D. Sixth
19. In the question arrange the given words in a meaningful sequence and then choose the most appropriate sequence from amongst the alternatives provided below question.
- (a) Curd            (b) Grass            (c) Butter            (d) Milk            (e) Cow
- A. (e), (b), (d), (a), (c)            B. (e), (b), (c), (d), (a)  
C. (d), (b), (e), (c), (a)            D. (b), (e), (d), (c), (a)
20. In the question arrange the given words in a meaningful sequence and then choose the most appropriate sequence from amongst the alternatives provided below question.
- (a) Andhra Pradesh            (b) Universe            (c) Tirupathi            (d) World            (e) India
- A. (a), (e), (b), (c), (d)            B. (b), (a), (c), (e), (d)  
C. (c), (a), (e), (d), (b)            D. (e), (d), (b), (a), (c)

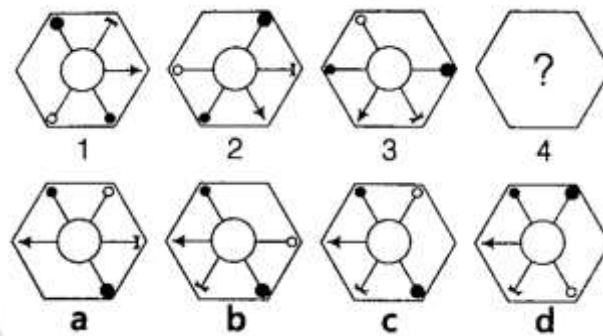
## SECTION-B

### Non Verbal Reasoning

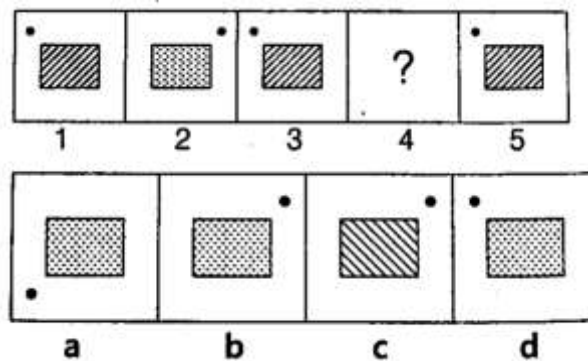
21. Which figure will complete the second pair in the same way as first pair?



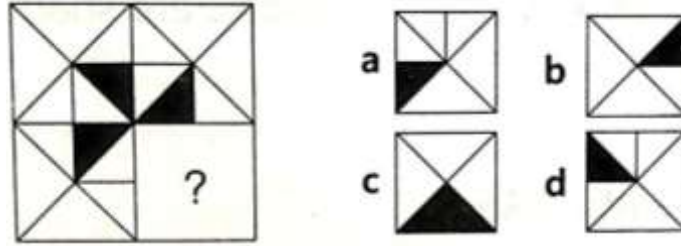
22. Find the next term in the series given below.



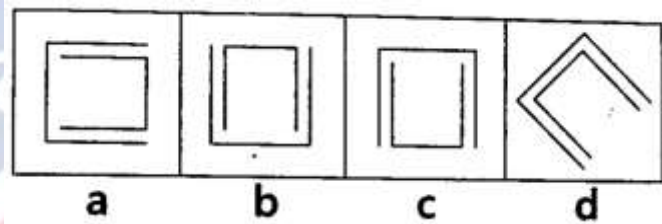
23. Find the missing figure in the series given below.



24. In the question, select a figure from the options that will complete the following figure matrix.



25. In the question, choose a figure which is different from others.

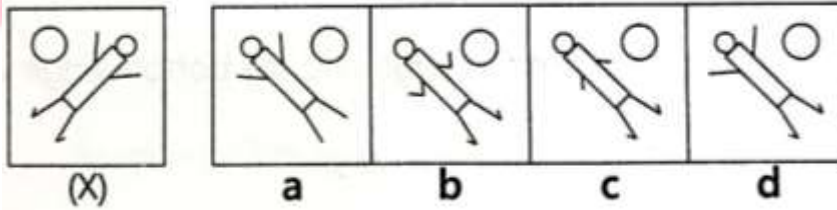


26. In the question, choose the correct mirror image of the given word from the four given alternatives.

DL3N469F

a DL3469FB b F964N3DL c DL3N469F d F964N3DL

27. In the question, choose the correct mirror image of the given figure(X) among the four given alternatives.

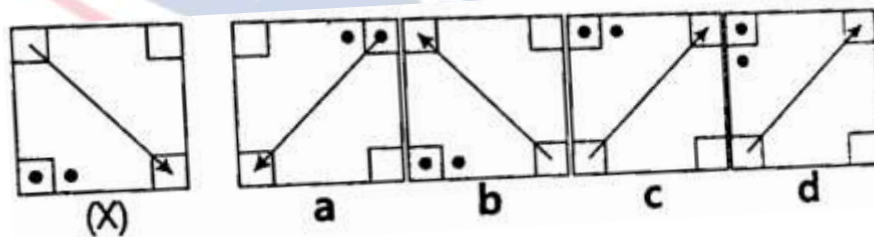


28. In the question, choose the correct water image of the given number from the four given alternatives.

1942

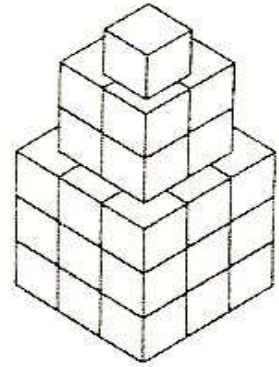
a 2491 b 2491 c 5491 d 1495

29. In the question choose the correct water image of the given figure(X).



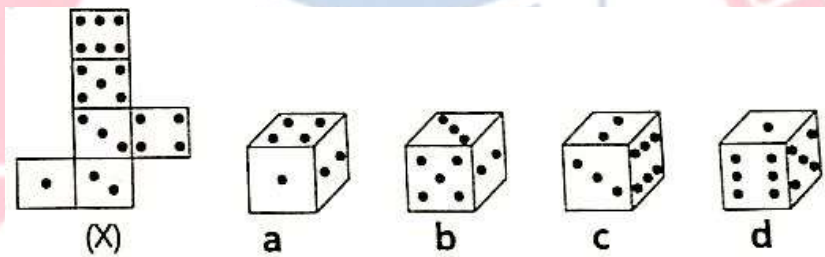


30. Count the number of cubes in the following figure.

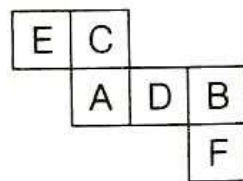


- A. 35
- B. 36
- C. 26
- D. 34

31. In the question, a sheet of paper represented as fig, (X) is folded to form a cube. From amongst the four alternatives (a), (b), (c) and (d) choose the cube which can be formed after folding the net.

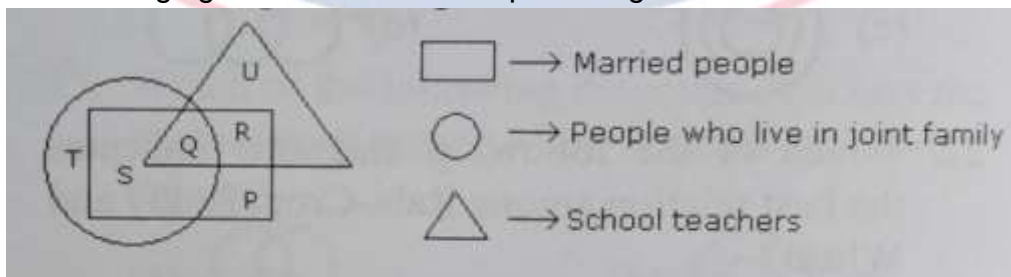


32. The given figure shows the net of a cube. The cube is placed on the table with face "D" on the top of the cube. Which face is at the bottom of the cube?



- A. C
- B. A
- C. E
- D. F

33. Study the following figure and answer the question given

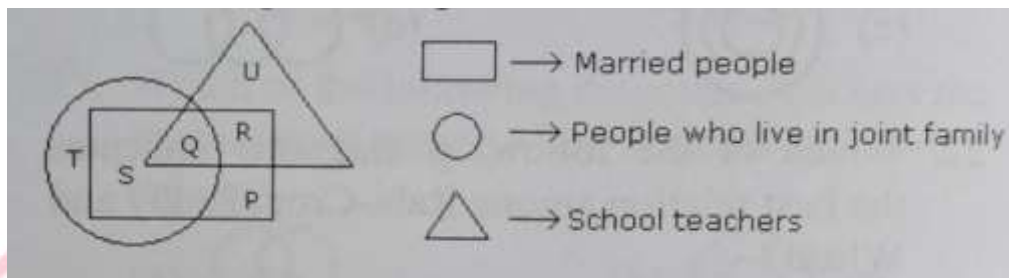


By which letter, the married teachers who live in joint family are represented?

- A. R
- C. S

- B. Q
- D. P

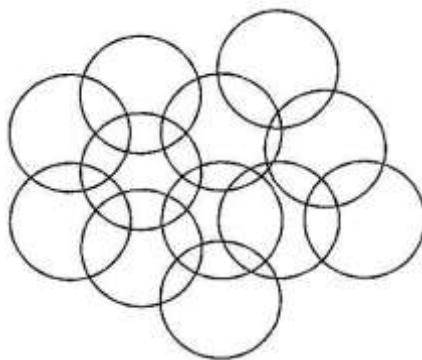
34. Study the following figure and answer the question given



By which letter, the married people who live in joint family but not are school teachers are represented?

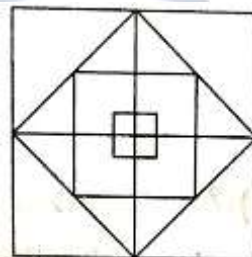
- A. R
- C. S
- B. U
- D. P

35. How many circles are there in the figure given below?



- A. 11
- C. 13
- B. 12
- D. 14

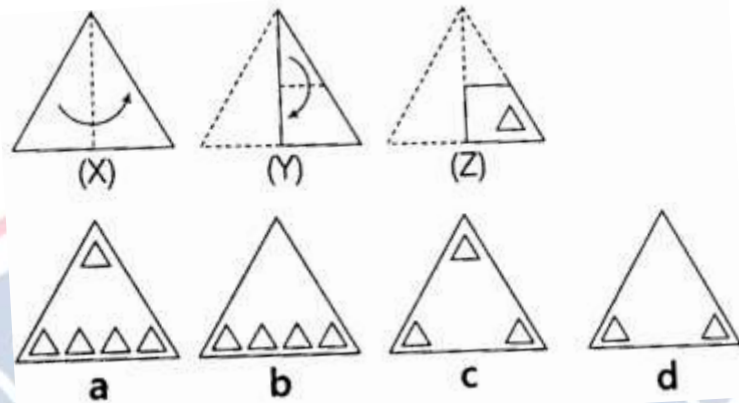
36. How many squares are there in the given figure?



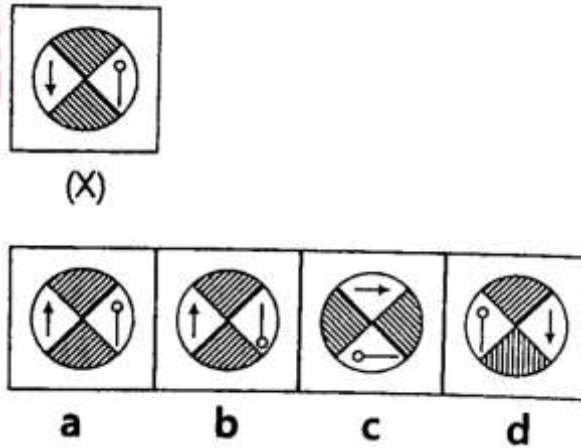
- A. 15
- C. 16
- B. 18
- D. 12



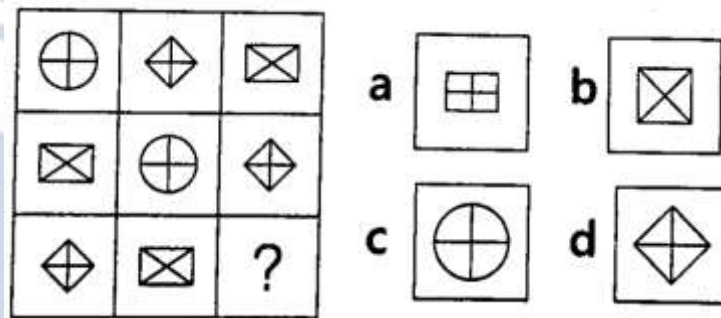
37. In the question a set of three figures is given, showing a sequence in which a paper is folded and finally cut in a particular manner. Now, you have to select the answer figure, showing the design which the paper actually acquires when it is unfolded.



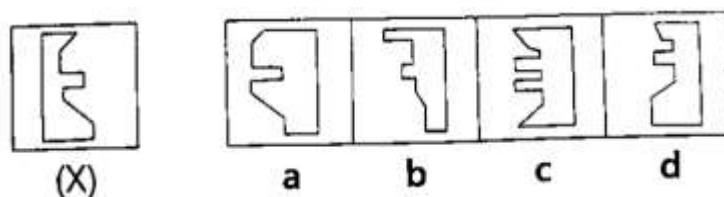
38. In the question, find out the correct water image of the given object(X).



39. Identify and choose the correct pattern or figure that will complete the grid.



40. In the question, fig (X) is given followed by four other alternative figures. It is required to select one figure from the alternatives, which exactly fits into fig (X) to form a perfect square.



## SECTION – C

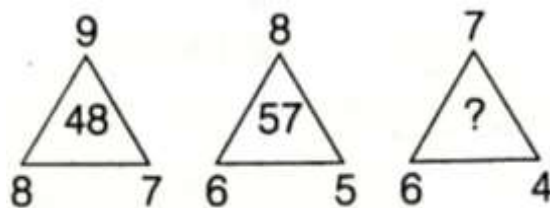
### Mathematical Reasoning & Data Interpretation

41. Identify the rule that has been used to fill in the entries of the given square / rectangle and then determine which one of the four given options will replace the question mark.

1	5	25	125
3	12	?	192
7	14	28	56

- A. 24                                      B. 26  
C. 48                                      D. 45

42. Find the number which replaces the question mark.



- A. 68                                      B. 78  
C. 62                                      D. 72

43. Which one of the following interchange in signs and numbers would make the equation  $27-18+15=30$  true?

- A. 27 and 15, - and +                                      B. 27 and 18, - and +  
C. 15 and 18, - and +                                      D. None of these

44. If  $72 \times 43 \times 13 = 974$  and  $24 \times 43 \times 12 = 673$ , then  $52 \times 23 \times 21 = ?$

- A. 357                                      B. 753  
C. 537                                      D. 573

45. Find the number in place of '?' in the following square matrix out of the given options in the following question.

6	7	8
10	16	22
8	?	6

- A. 7  
C. 14
- B. 10  
D. 12

46. Find the number in place of '?' in the following square matrix out of the given options in the following question.

9	8	36
11	18	99
20	30	?

- A. 125  
C. 310
- B. 175  
D. 300

47. If x stands for +, y stands for -, z stands for  $\div$  and p stands for x, then what is the value of :

$$(7p3) y6x5 ?$$

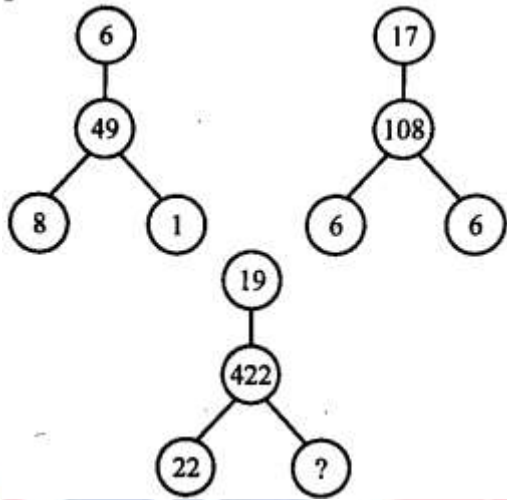
- A. 5  
C. 15
- B. 10  
D. 20

48. Find the missing numbers in the given series  
**2004 , 2009 , 2016 , ? , 2036 , ? , 2064**

- A. 2008 , 2036  
B. 2001 , 2010  
C. 2025 , 2094  
D. 2025 , 2049

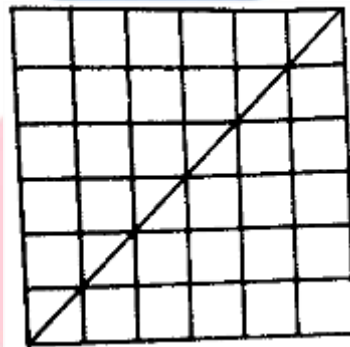


49. In the question which one number can be placed at the sign of interrogation?



- A. 0
- B. 2
- C. 3
- D. 4

50. How many triangles are there in this figure?



- A. 42
- B. 41
- C. 40
- D. 39



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## IFRAO

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& Aptitude Olympiad

### ANSWER SHEET

Question No.	Answer	Question no.	Answer
1.	A	26.	B
2.	A	27.	D
3.	B	28.	C
4.	D	29.	C
5.	A	30.	B
6.	A	31.	D
7.	C	32.	C
8.	C	33.	B
9.	D	34.	C
10.	B	35.	B
11.	D	36.	C
12.	D	37.	D
13.	A	38.	B
14.	D	39.	C
15.	D	40.	A
16.	B	41.	C
17.	C	42.	A
18.	B	43.	B
19.	A	44.	B
20.	C	45.	A
21.	C	46.	D
22.	C	47.	D
23.	B	48.	D
24.	D	49.	D
25.	D	50.	A