

International Olympiad Foundation (IOF)
(IOLYMPIADS LLP)
Certifying Talents Across World



Question Paper &
Answer Sheet
CLASS-8

 **IFRAO**
International Foundation
Reasoning & Aptitude
Olympiad

International Foundation
Reasoning & Aptitude Olympiad(IFRAO)
CLASS -8
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 b _ _ a _ _ b _ b a b _ b a
A. b b b a b a B. b a b b a b
C. a a b a a a D. a b b a a 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. Court B. Rink
C. Farm D. Stadium
- 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. KP B. MN
C. HR D. GT
- The question consists of two words that have a certain relationship to each other. Select the pair from amongst the four pairs of words which has the same relationship as the original one.
Knowledge : Ignorance : : ? : ?
A. Cure : Health B. Conceal : Hide
C. Breath : Suffocation D. Construction : War
- In a certain code, PAPER is written as SCTGW. How is MOTHER written in that code?
A. ORVLGW B. PQVJGT
C. PQXJJT D. PQXKJV
- In a certain code language 24685 is written as 33776. How is 35791 written in that code?
A. 44826 B. 44880
C. 46682 D. 44682

7. If finger is called toe, toe is called foot, foot is called thumb, thumb is called ankle , ankle is called palm and palm is called knee, which one finger has a different name?
- A. Toe
B. Thumb
C. Knee
D. Ankle
8. In a certain code, '256' means 'red colour chalk'; '589' means 'green colour flower' and '245' means 'white colour chalk'. Which digit in that code means 'white'?
- A. 2
B. 4
C. 5
D. Can't be determined
9. Showing the man receiving the prize on the stage, Shamli said, "He is the brother of my uncle's daughter."
Who is the man to Shamli?
- A. Son
B. Brother-in law
C. Nephew
D. Cousin
10. Kailash faces towards North. Turning to his right, he walks 25 metres. He then turns to his left and walks 30 metres. Next, he moves 25 metres to his right. He then turns to his right again and walks 55 metres. Finally, he turns to the right and moves 40 metres. In which direction is he now from his starting point ?
- A. South-west
B. South
C. North-west
D. South-east
11. Arrange the given words in alphabetical order and choose the one that comes first.
- A. Sport
B. Spouse
C. Squash
D. Sporadic
12. Arrange the given words in alphabetical order and tick the one that comes in the last.
- A. Haste
B. Haphazard
C. Host
D. Hang
13. In the question, arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence.
1. Preach 2. Praise 3. Precinct 4. Precept 5. Precede
- A. 2, 1, 5, 4, 3
B. 2, 1, 3, 4, 5
C. 2, 5, 1, 4, 3
D. 1, 2, 5, 4, 3
14. Find which one word cannot be made from the letters of the given word.
ADULTERATION
- A. RETURN
B. RELATION
C. RETAIL
D. TOILET

15. Choose one word which can be formed from the letters of the given word.

QUINTESSENCE

A. SCOT

B. QUOTE

C. QUITE

D. ESTEEM

16. A meaningful word starting with A is made from the first, the second, the fourth, the fifth and the sixth letters of the word 'CONTRACT'. Which of the following is the middle letter of the word?

A. C

B. O

C. R

D. T

17. Ravi is 7 ranks ahead of Sumit in a class of 39. If Sumit's rank is seventeenth from the last, what is Ravi's rank from the start?

A. 14th

B. 15th

C. 16th

D. 17th

18. In a queue, Vijay is fourteenth from the front and Jack is seventeenth from the end, while Mary is in between Vijay and Jack. If Vijay is ahead of Jack and there are 48 persons in the queue, how many persons are there between Vijay and Mary?

A. 8

B. 7

C. 6

D. 5

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) Protect

(b) Pressure

(c) Relief

(d) Rain

(e) Flood

A. (b), (d), (c), (a), (e)

B. (b), (d), (e), (a), (c)

C. (b), (c), (d), (a), (e)

D. (c), (b), (d), (e), (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) Country

(b) Furniture

(c) Forest

(d) Wood

(e) Trees

A. (a), (c), (e), (d), (b)

B. (a), (d), (c), (b), (e)

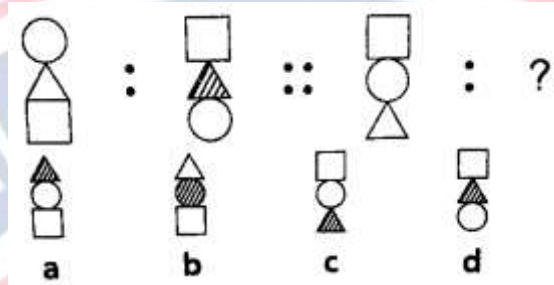
C. (b), (d), (c), (a), (e)

D. (e), (b), (c), (a), (d)

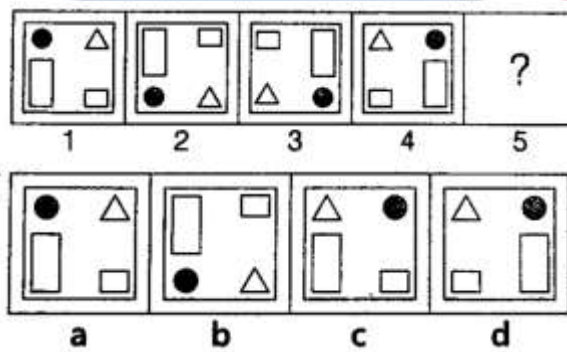
SECTION-B

Non Verbal Reasoning

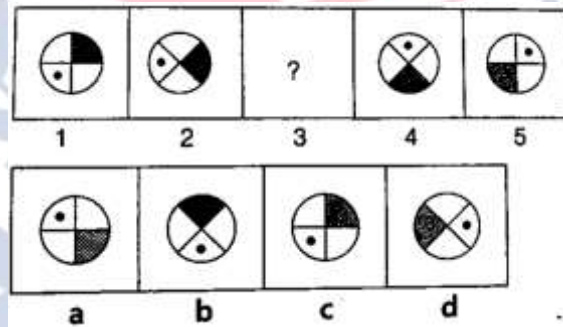
21. Which figure will complete the second pair in the same way as first pair?



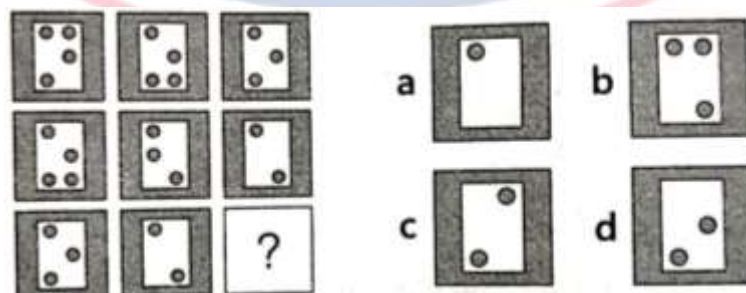
22. Find the next term in the series given below.



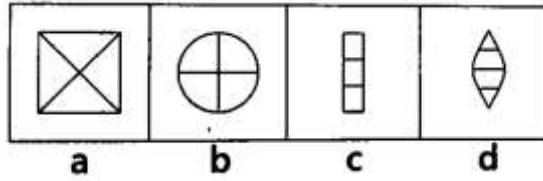
23. Find the missing figure in the series given below.



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.

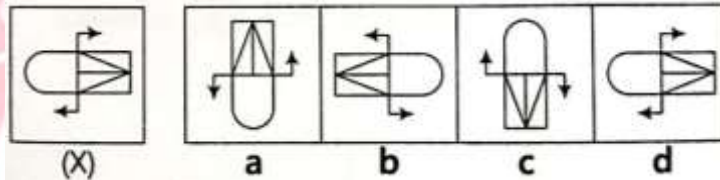


26. In the question, choose the correct mirror image of the given word from the four given alternatives when the mirror is placed vertically on the right side.

disturb

- a durtisb b qizlnP c brutsid d bdistur

27. In the question, choose the correct mirror image of the given figure(X) among the four given alternatives when the mirror is placed vertically on the right side of the figure .

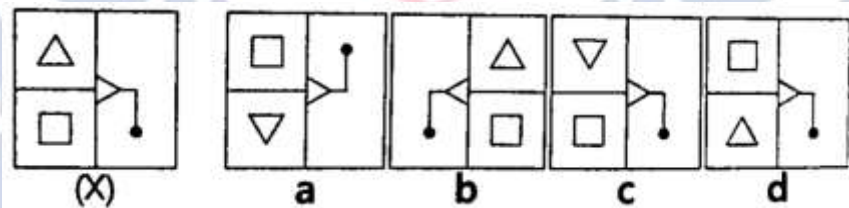


28. In the question, choose the correct water image of the given word from among the four given alternatives.

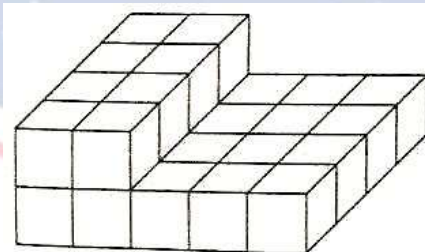
rise

- a rise b esir c rise d esir

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

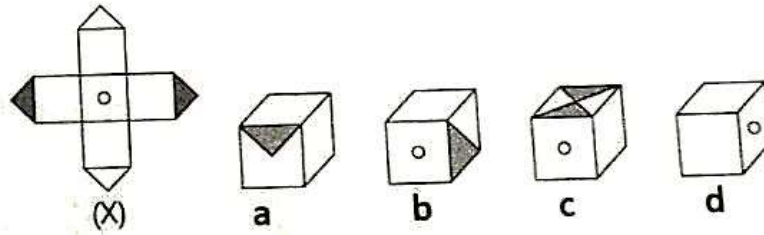


30. Count the number of cubes in the following figure.

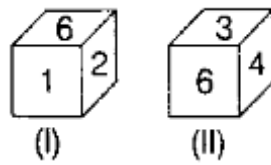


- A. 24 B. 35
C. 28 D. 30

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.

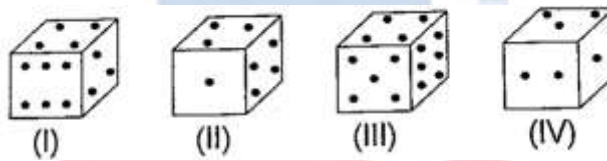


32. Two positions of a dice are shown below. When the number 6 will be at the bottom, then which number will be at the top?



- A. 2
- B. 3
- C. 4
- D. 5

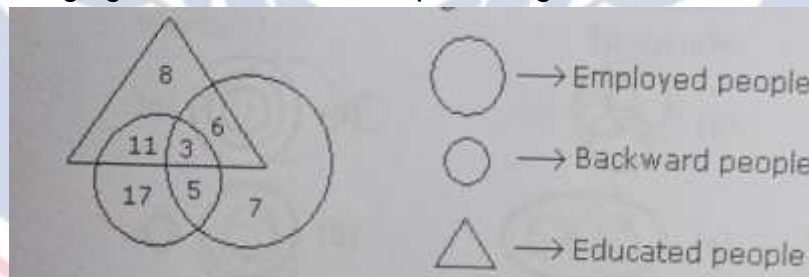
33. Four faces of a dice are shown below.



How many dots will be on the face opposite to the face which contains 3 dots?

- A. 2
- B. 5
- C. 4
- D. 6

34. Study the following figure and answer the question given below.



How many backward people are educated?

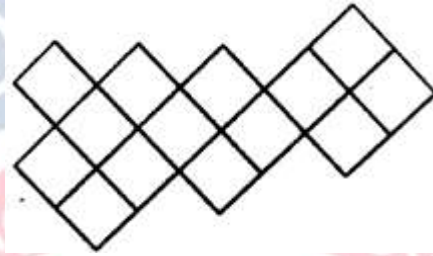
- A. 9
- B. 28
- C. 14
- D. 6

35. Select the correct set of operators that will fit in the blank spaces of

$$2 _ 4 _ 8 _ 5 = 11$$

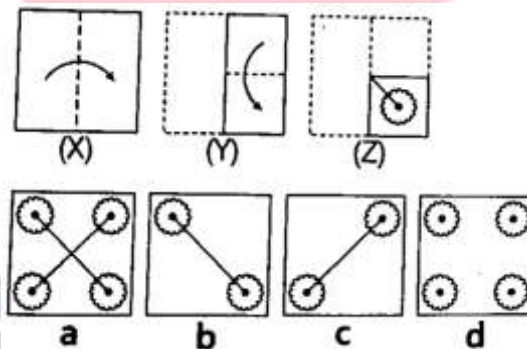
- A. $\div, \times, +$
- B. $\div, -, +$
- C. $\times, -, \div$
- D. $\times, +, -$

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

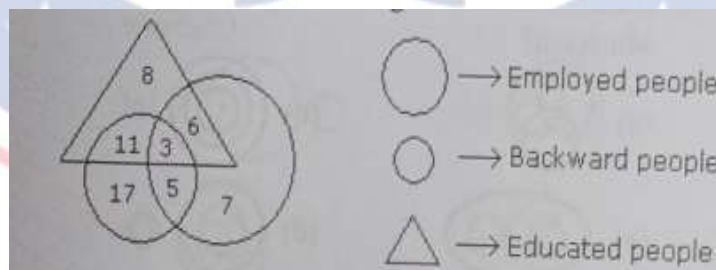


- A. 12
- B. 18
- C. 20
- D. None of these

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.



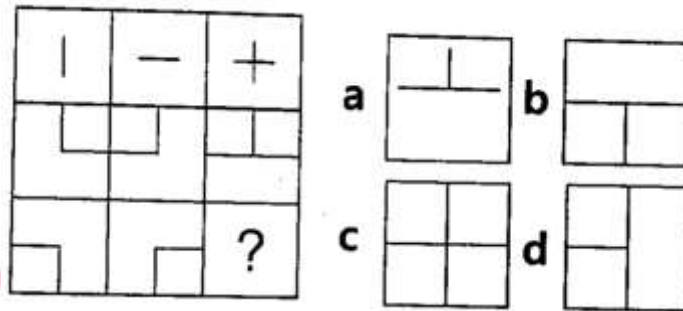
38. Study the following figure and answer the question given below.



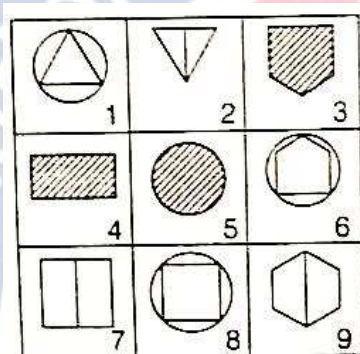
How many educated people are employed

- A. 9
- B. 18
- C. 20
- D. 15

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



40. In the question, group the given figures into three classes using each figure only once.



- a 9, 4, 8; 3, 6, 7; 1, 2, 5
- b 1, 2, 4; 7, 9, 5; 8, 6, 3
- c 1, 8, 6; 2, 7, 9; 3, 5, 4
- d 5, 3, 2; 4, 6, 9; 1, 7, 8

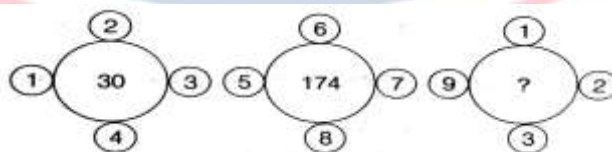
SECTION – C
Mathematical Reasoning & Data Interpretation

41. Which term replaces the question mark in the given question?

828	?
680	756

- A. 167
- B. 953
- C. 984
- D. 503

42. Find the number which replaces the question mark.



- A. 56
- B. 95
- C. 72
- D. 96

43. If the digits '6' and '4', signs '+' and 'x' are interchanged, then which one of the four equations would be correct?

A. $6 + 4 \times 2 = 26$

B. $6 + 4 \times 2 = 0$

C. $4 \times 2 + 6 = 8$

D. $4 + 6 \times 2 = 12$

44. If $27 \times 37 \times 42 = 42 \times 27 \times 37$ and $65 \times 96 \times 23 = 23 \times 65 \times 96$, then $56 \times 84 \times 75 = ?$

A. $56 \times 75 \times 84$

B. $56 \times 84 \times 56$

C. $75 \times 84 \times 56$

D. $75 \times 56 \times 84$

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

203	77	70
17	103	30
40	?	39

A. 116

B. 106

C. 96

D. 86

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

15	4	20
11	12	44
57	3	?

A. 19

B. 57

C. 32

D. 32

47. If x means +, + means \div , - means \times and \div means -, then the value of the expression

$15 - 2 \div 900 + 90 \times 100$ is :

A. 190

B. 180

C. 90

D. None of these

48. If $5 @ = 8$, $12 @ = 15$, $2 @ = 5$ then find the value of $15 @$

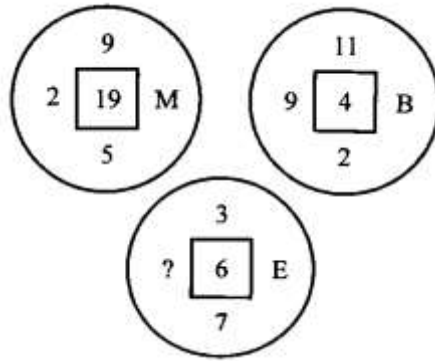
A. 30

B. 21

C. 13

D. 18

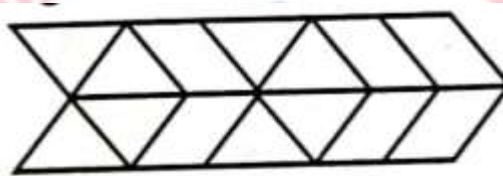
49. In the question below which one number can be placed at the sign of interrogation?



- A. 1
- C. 9

- B. 3
- D. 13

50. Count the number of parallelograms in the figure given below



- A. 35
- C. 37

- B. 36
- D. 38



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ANSWER SHEET

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