





Bloom Reasoning Olympiad Sample Paper 1

Maximum Time : 60 Minutes

Maximum Marks : 60

INSTRUCTIONS

1. There are 50 Multiple Choice Questions in this paper divided into two sections :

Section A 40 MCQs; 1 Mark each

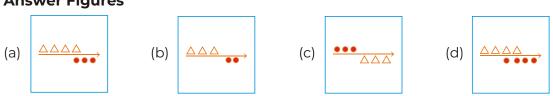
- Section B 10 MCQs; 2 Marks each
- 2. Each question has Four Options out of which **ONLY ONE** is correct.
- 3. All questions are compulsory.
- 4. There is no negative marking.
- 5. No electronic device capable of storing and displaying visual information such as calculator and mobile is allowed during the course of the exam.

School Name		
Student's Name	School Name	
	Student's Name	

Section A (1 Mark Questions)

		,	e	/
	- .		fferent from others.	
(a)	BD	(b) I K	(c) P N	(d) S U
2. Fir	nd the missing le	tter in the following	ı series.	
Н,	I, K, N, ?			
(a)	0	(b) Q	(c) R	(d) S
7 5	nd a pair circilar t	a (Arrow Dow! from	the following	
	•	:o 'Arrow : Bow' from	•	
(a)	Football : Hand	(b) Salad : Knife	(c) Bullet : Rifle	(d) Smoke : Water
	•	-		given alphabet, then which of
th	-	e the tenth letter fro	-	
			TOMQWSPUQW	
(a)	G	(b) D	(c) Q	(d) H
	a certain code la 'ra ka da' find th		is written as 'pa ka	na' and 'she is brave' is written
(a)	ka	(b) na	(c) da	(d) ra
to Oł	ut of the four give the given word. nm : Watt : Ampe Electricity		se that alternative as (c) Hour	s your answer which is similar (d) Light
7. Fir	nd the figure tha	t will complete the f	ollowina series.	
	oblem Figures			
•			?	
Δr	nswer Figures			

Answer Figures



8. In a certain code language 'MIGHT' is written as 'GHMTI', then how will 'EARTH' be written in that code?

(a) RTEHA	(b) RTEAH	(c) RTAEH	(d) RETHA
9. Find the odd o	ne out.		

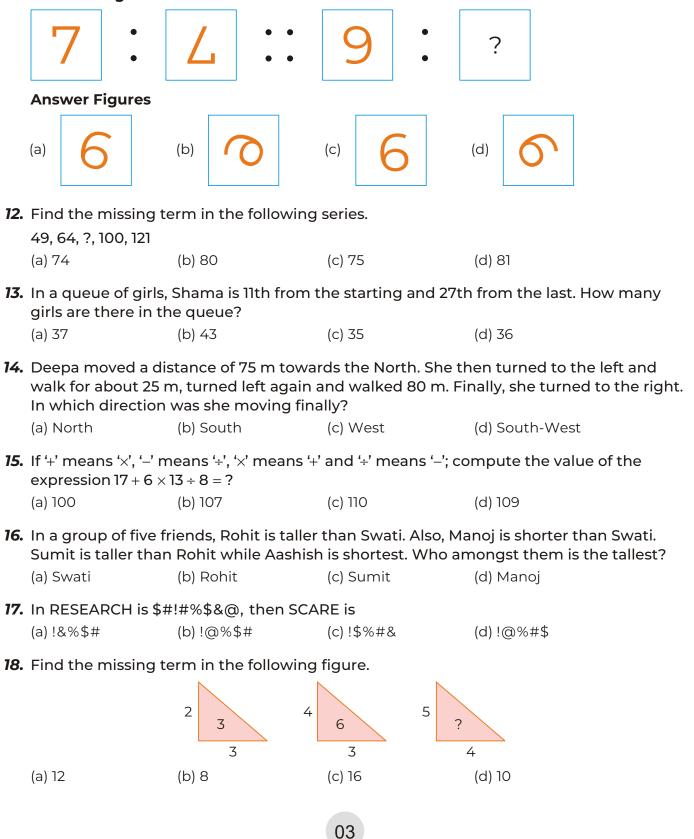
(c) 29 (a) 17 (b) 27 (d) 37

02

10. Which letter is exactly midway between G and Q in English alphabet?

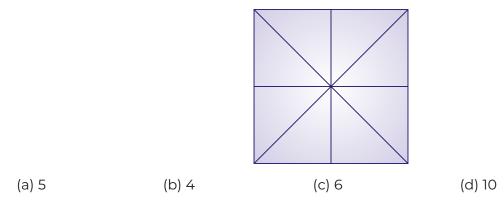
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(a) K (b) L (c) N (d) J
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11. Find the figure from the set of answer figures that will replace the question mark '?'. **Problem Figures**

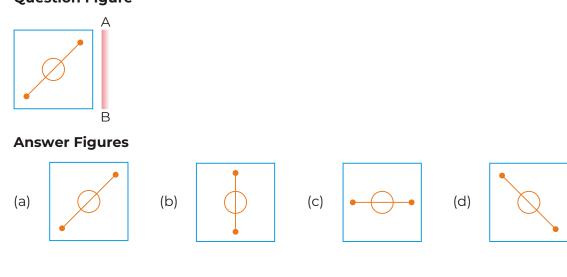


- 19. One day, Ravi left home and cycled 10 km Southwards, turned right and cycled 5 km and turned right and cycled 10 km and turned left and cycled 10 km. How many kilometres will he have to cycle to reach his home straight.
 - (a) 10 km (b) 15 km (c) 20 km (d) 25 km
- 20. Find the odd one out.
 - (a) Tortoise (b) Crab (c) Frog (d) Fish
- **21.** I am facing North. I turn 135° in clockwise direction, then 180° in anti-clockwise direction. What direction am I facing now?
 - (a) North-East(b) West(c) South-East(d) North-West
- **22.** Arrange the given words according to English dictionary.
 - 1. Episode
 2. Epistle
 3. Episcope
 4. Epigraph

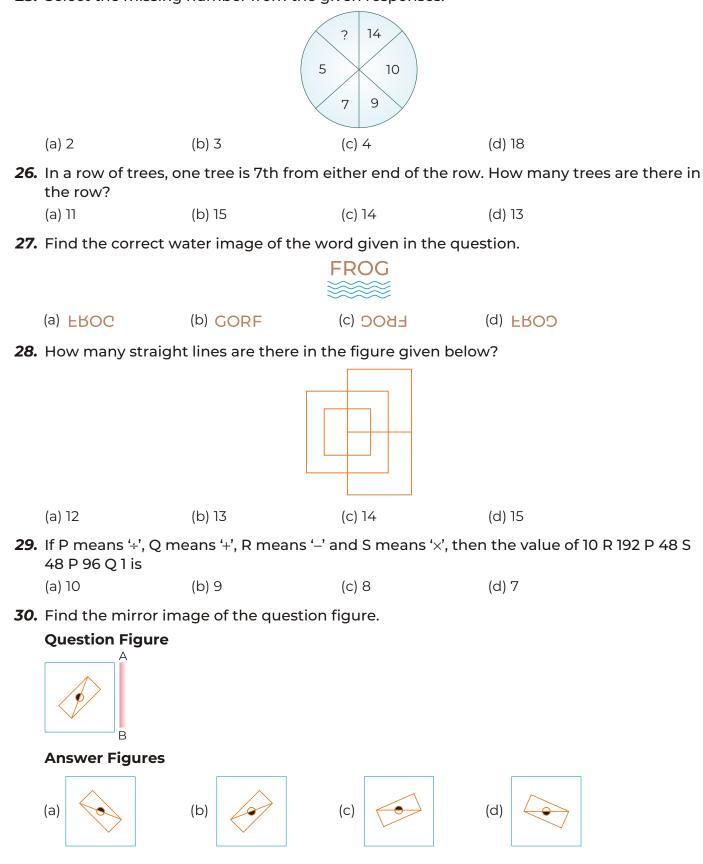
 (a) 2, 3, 1, 4
 (b) 4, 3, 1, 2
 (c) 3, 2, 1, 4
 (d) 1, 2, 3, 4
- 23. How many squares are there in the figure given below?



24. Find the mirror image of the question figure. **Question Figure**



25. Select the missing number from the given responses.

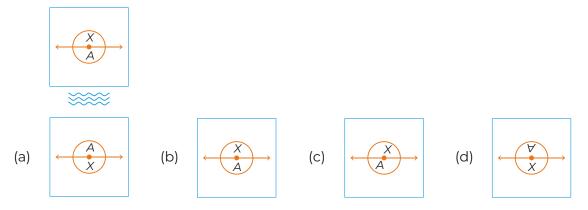


05

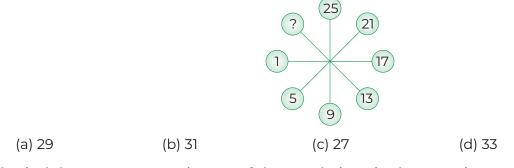
31. If EXPLAIN is coded as BUMIXFK, then how will GYM be coded as?

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(a) YHN (b) UJM (c) DVJ (d) IKL
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32. Find the correct water image of the question figure given in the question.



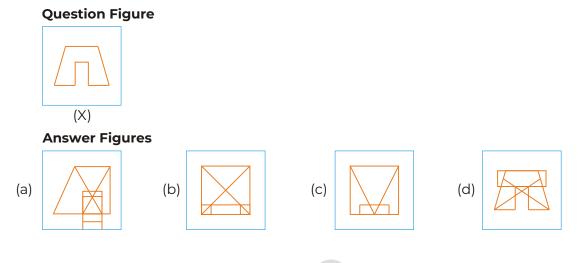
33. Find the missing term in the following figure.



34. Find the correct water image of the word given in the question.

		189 ※※	
(a) 189	(p) [89	(c) J86	(d) L86

- **35.** Which word from the alternatives will come at third place in the English dictionary?(a) Radical(b) Radiate(c) Racket(d) Radius
- **36.** In the following question, a question figure is given with four answer figures (a), (b), (c) and (d). Find out that answer figure which is embedded in the question figure (X).

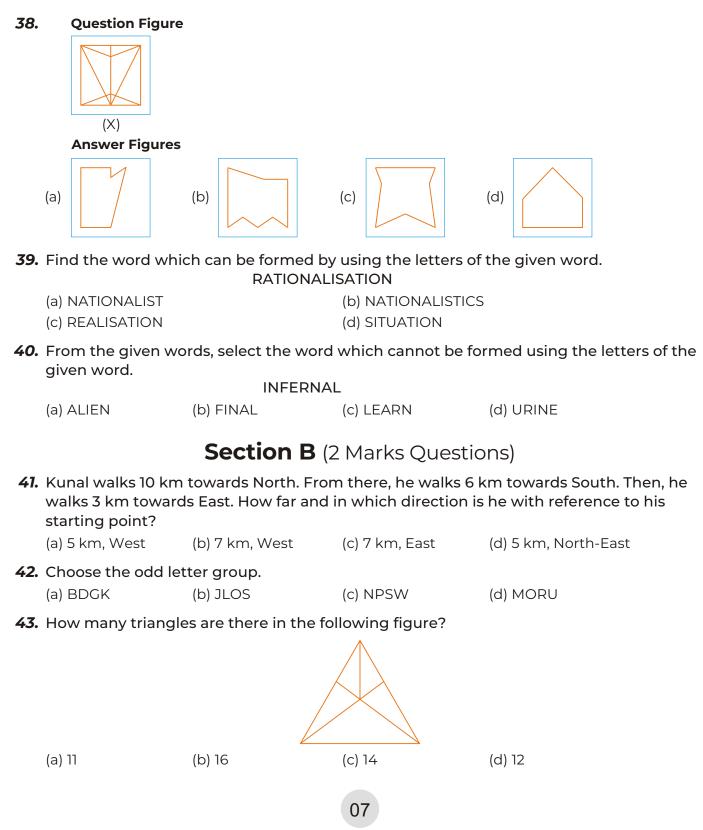


06

37. If $9 \times 5 \times 2 = 529$ and $4 \times 7 \times 2 = 724$, then $3 \times 9 \times 8 = ?$

(a) 983 (b) 839 (c) 938 (d) 893

Direction (Q. No. 38) In the following question, a question figure is given with four answer figures (a), (b), (c) and (d). Find out that answer figure which is embedded in the question figure (X).



- **44.** In a row of students, Anil is 7th from left, while Sunil is 18th from right. Both of them interchanged their positions such that Anil becomes 21st from left. What will be the total number of students in the class?
 - (a) 38 (b) 33 (c) 31 (d) 30
- **45.** Choose the pair from the given alternatives which is similar to the given pair.

BCD:EFG :: ? : ?	
(a) L M N : O P Q	(b)
(c) A B C : M N O	(d) X W V : Z Y Z

46. Find the missing characters in the following figure.

		_						
			В	J	Q	Е	?	
			2	10	17	?	8	
	(a) H and 8	(b) 6	Sand U		(c) H ai	nd 6	(d) 5 and H
47.	In a certain code 'C, that code?	ALA	NDER' i	s writte	n as 'CL	ANAEDI	R'. How	is 'CIRCULAR' written in
	(a) ICCRLURA	(b) (CRIUCAL	_R	(c) CRI	UCLRA	(d) CRIARLCU
48.	Find the missing all AMN, BOP, CQR, ?					`	(-	
	(a) BAS	(b) [251		(c) EQF	J	(C) FRS
49 .	If 2463 = 36 and 5552	2 = 3	0, then	6732 = ?	•			
	(a) 32	(b) 3	36		(c) 34		(d) 39
50 .	Find the water imag	ge o	f the fo	llowing	numbe	r-letter o	combina	ation?
	PQ8AF5BZ9							
	(9) PQ8AF5BZ9	(b) E	Q8AF5	BZ6	(с) РО	3AJ2BZ	9 (d)	PQ8AF2BZ0

Solutions

1. (c) Here,

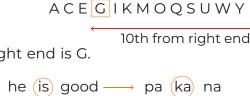
 $\begin{array}{ccc} B \xrightarrow{+2} D, & I \xrightarrow{+2} K \\ \hline P \xrightarrow{-2} N & , & S \xrightarrow{+2} U \end{array}$

All except PN follows the same pattern. So, PN is the odd one.

2. (c) The pattern of the series is,

 $H \xrightarrow{+1} I \xrightarrow{+2} K \xrightarrow{+3} N \xrightarrow{+4} \mathbb{R}$

- **3.** (c) As, Arrow is released with the help of Bow, similarly a Bullet is released with the help of Rifle.
- 4. (a) The new alphabet series is



The tenth letter from the right end is G.

5. (a)

Here 'is' is common in both the messages. Similarly, the code 'ka' is common in the
codes of both the messages.

she (is) brave \longrightarrow ra (ka) da

So, 'is' \rightarrow ka.

- **6.** (b) As, Ohm, Watt, Ampere are measurement units of electricity. Similarly, Volt is the measurement unit of electricity.
- 7. (a) In each subsequent figure both types of designs interchange positions and the number of these designs is increased alternately.

8. (a) As, MIGHT —	──→ G H M T I
1 2 3 4 5	3 4 1 5 2
(position)	(new position)
Similarly, EARTH 12345 (position)	RTEHA 3 4 1 5 2 (new position)

9. (b) Each of the number except 27, is a prime number.

10. (b) Letter between G and Q

G H I J K L M N O P Q Middle letter

Here, L is exactly midway between G and Q.

- **11.** (c) The figure rotates through 180° anti-clockwise. On following the same pattern, the answer figure (c) will replace the question mark '?'.
- **12.** (d) According to question $49 \rightarrow 7^2$

$$64 \rightarrow 8^{2}$$

$$81 \rightarrow 9^{2}$$

$$100 \rightarrow 10^{2}$$

$$121 \rightarrow 11^{2}$$

 \therefore Option (d) is the correct answer.

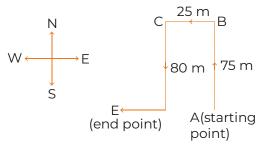
13. (a) We know that,

Total number of girls in queue = (Rank of girl from starting + Rank of girl from last) -1

$$=(11+27)-1=37$$

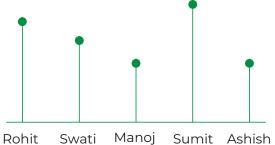
=

14. (c) According to the given information,



Clearly, she is moving towards West.

- **15.** (b) Given, $17 + 6 \times 13 \div 8 = ?$ $\downarrow \quad \downarrow \quad \downarrow$ $17 \times 6 + 13 - 8 = 102 + 13 - 8 = 115 - 8 = 107$
- 16. (c) According to the question,



Rohit > Swati;Manoj < Swati</th>orSwati > Manoj;Sumit > RohitandAshish is shortest.Arranging the above data, we get

Sumit > Rohit > Swati > Manoj > Ashish

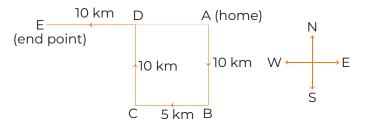
Clearly, Sumit is the tallest.

18. (d) Here, the pattern is as follows,

$$\frac{2 \times 3}{2} = \frac{6}{2} = 3 \implies \frac{4 \times 3}{2} = \frac{12}{2} = 6$$
$$\frac{5 \times 4}{2} = \frac{20}{2} = 10$$

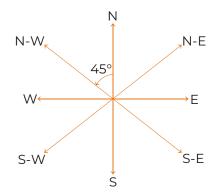
Similarly,

19. (b) According to the given information,



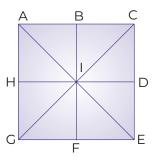
Thus, his distance from initial position A = AE = AD + DE = BC + DE= (5+10) km = 15 km

- **20.** (d) Except fish, all others are live both on land and water.
- 21. (d) Difference in degree = 180° 135° = 45° anti-clockwise.



Hence, now I am facing in North-West direction.

- **22.** (b) The correct sequence of words would be Epigraph, Episcope, Episode, Epistle i.e. 4, 3, 1, 2.
- 23. (a) According to question,

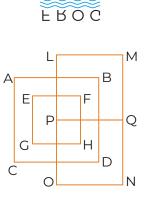


Smallest squares = ABIH, BCDI, DEFI, FGHI = 4

Square formed with four squares (the largest square) = ACEG =1

: Total number of squares = 4 + 1 = 5

- 24. (d) Here, the mirror is placed vertically at AB on the RHS of the question figure. Hence, only the figures given in answer figure (d) would be obtained as the correct mirror image.
- **25.** (d) As, 7 × 2=14 and 5 × 2=10 Similarly, 9 × 2=18
- **26.** (d) Here, position of tree from both the end is 7. \therefore Total number of trees = 7 + 7 - 1 = 13
- **27.** (a) The given word's reflection would be seen in the water as

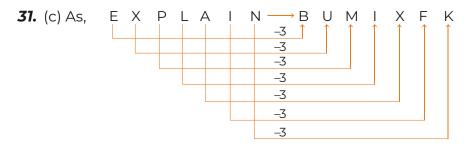


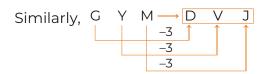
FROG

28. (b) According to question,

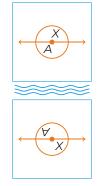
Horizontal lines = AB, EF, GH, CD, LM, PQ, ON = 7 Vertical lines = AC, EG, FH, BD, LO, MN = 6 \therefore Total number of straight lines = 7 + 6 = 13

- **30.** (a) Here, the mirror is placed vertically at AB on the RHS of the question figure. Hence, only the figure given in answer figure (a) would be obtained as the correct mirror image.





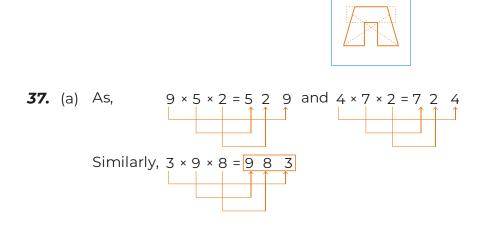
32. (d) The figure given in option (d) is the correct water image of the question figure.



33. (a) Here, the pattern is as follows,

34. (a) Reflection of the given number would be seen in the water as

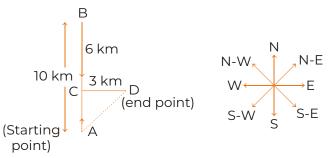
- **35.** (a) Racket, Radiate, Radical. Clearly, Radical is at third place.
- **36.** (d) By carefully observation, we find that the figure (X) is embedded in figure (d) as shown below.



38. (a) By carefully observation, we find that the figure (a) is embedded in figure (X) as shown below.



- **39.** (a) From the given word, 'NATIONALIST' can be formed because all the letters of this word are present in the given word.
- **40.** (d) Only URINE cannot be formed from the letters of the given word.
- 41. (d) According to the given information,



Then, AC = (AB - BC) = (10 - 6) = 4 kmKunal's distance from starting point A

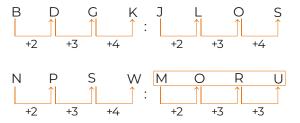
$$AD = \sqrt{AC^2 + CD^2}$$
 (Pythagoras theorem)
= $\sqrt{4^2 + 3^2} = 5$ km

Е

С

Also, D is to the North-East of A.

42. (d) Here,

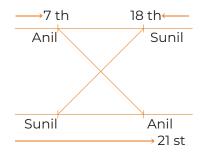


All except MORU, follows the same pattern. So, MORU is the odd one.

43. (d) Smallest triangles = $\triangle AOD, \triangle AOE, \triangle COE, \triangle BOD, \triangle BOC = 5$

Triangles formed with two triangles = $\Delta AOC(\Delta AOE + \Delta COE)$, $\Delta AOB (\Delta AOD + \Delta BOD)$ $\Delta BCD(\Delta BOD + \Delta BOC)$, $\Delta BCE(\Delta BOC + \Delta COE) = 4$ Triangles formed with three triangles = $\Delta ACD(\Delta AOD + \Delta AOE + \Delta COE)$ $\Delta ABE (\Delta BOD + \Delta AOD + \Delta AOE) = 2$ Largest triangle = $\Delta ABC = 1$ \therefore Total triangles = 5+4+2+1=12

44. (a)



- \therefore Anil moves (21–7)=14 places ahead and changed his place with Sunil.
- : Sunil will also move 14 places ahead.
- :. Sunil's new position from right end =18+14=32

We can also calculate the total number of students

= (Anil's initial position) + (Sunil's new position)
$$-1$$

= 7 + 32 - 1 = 38

- **46.** (d) Here, in each box letters of English alphabetical series and their corresponding positions are given,

As, B = 2, J = 10, Q = 17Similarly, E = 5 and H = 8

47. (b) As, $C \rightarrow C$ Similarly, $C \rightarrow C$ $A \downarrow L$ $A \downarrow A$ $A \downarrow A$ $A \downarrow$

48. (b) According to question,

$$A \xrightarrow{+1} B \xrightarrow{+1} C \xrightarrow{+1} D$$

$$M \xrightarrow{+2} O \xrightarrow{+2} Q \xrightarrow{+2} S$$

$$N \xrightarrow{+2} P \xrightarrow{+2} R \xrightarrow{+2} T$$

. .

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49. (a) As, 2463 \rightarrow (2+4+6) \times 3 = 12 \times 3 = 36
and 5552 \rightarrow (5+5+5) \times 2 = 15 \times 2 = 30
Similarly, 6732 \rightarrow (6+7+3) \times 2 = 16 \times 2 = 32
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50. (a)

PQ8AF5BZ9
PQ8AF5BZ9