

Class 4 · Reasoning Olympiad

Total questions 35	Total marks 40	Time 60 minutes	Negative marking None
-----------------------	-------------------	--------------------	--------------------------

Each question has four options, of which only one is correct. Mark your answer on the answer sheet. The Achievers Section carries higher marks per question. The answer key with full solutions is at the end of this paper.

This is original practice material written to the Level 1 pattern. It is not a past paper and is not affiliated with SOF or any official olympiad body.

Logical Reasoning

30 questions · 1 mark each · 30 marks

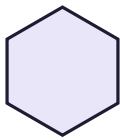
Q1. Which letter comes next? G, I, L, P, ____

- (A) S (B) V (C) T (D) U

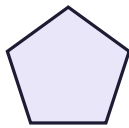
Q2. Which of these numbers is the smallest?

- (A) 1726 (B) 2312 (C) 515 (D) 1676

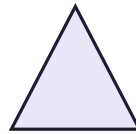
Q3. Which of these figures has exactly 6 lines of symmetry?



(A)



(B)



(C)



(D)

Q4. Find the next number in the pattern: 3, 8, 18, 38, ____

- (A) 80 (B) 78 (C) 79 (D) 76

Q5. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is PEN written?

- (A) 16 - 5 - 14 (B) 14 - 5 - 16 (C) 17 - 6 - 15 (D) 11 - 22 - 13

Q6. Which one does NOT belong with the others?

- (A) Pentagon (B) Rectangle (C) Triangle (D) Circle

Q7. Arjun walks 9 m towards north, turns right and walks 6 m, then turns right again and walks 9 m. How far is Arjun from the starting point, and in which direction?

- (A) 15 m, North (B) 9 m, East (C) 6 m, East (D) 6 m, West

Q8. Find the odd one out: 21, 72, 81, 90, 99

- (A) 21 (B) 72 (C) 99 (D) 90

Q9. In a certain code FAN is written as HCP. How is BAT written in that code?

- (A) VCD (B) EDW (C) ZYR (D) DCV

Q10. In the first row the numbers are 4, 5 and 12. In the second row they are 6, 2 and 11. In the third row they are 3, 6 and ____ . The same rule applies to every row.

- (A) 14 (B) 12 (C) 11 (D) 13

Q11. Five friends A, B, C, D and E sit in a row of five seats. A sits at the extreme left end, D sits at the extreme right end, C sits exactly in the middle and B sits between A and C. Who sits in the fourth seat from the left?

- (A) B (B) C (C) E (D) D

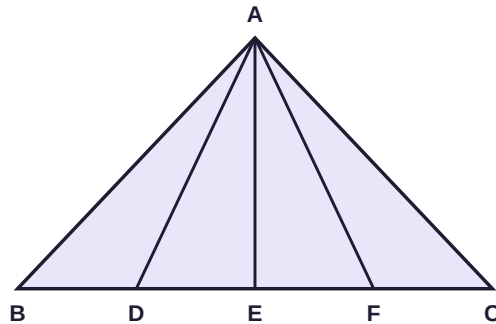
Q12. Which letter comes next? B, D, F, H, ____

- (A) L (B) K (C) I (D) J

Q13. If the 8th of a month is a Saturday, what day of the week is the 21th of the same month?

- (A) Sunday (B) Thursday (C) Friday (D) Saturday

Q14. How many triangles are there in the given figure?



- (A) 9 (B) 12 (C) 11 (D) 10

Q15. Count forward in 2s: 4, 6, 8, 10, ____

- (A) 11 (B) 13 (C) 12 (D) 14

Q16. Which word would come FIRST in a dictionary?

- (A) metal (B) matter (C) melon (D) mother

Q17. Book : Library :: Medicine : ____

- (A) Studio (B) Garage (C) Bakery (D) Pharmacy

Q18. If today is Tuesday, what day is the day after today?

- (A) Thursday (B) Wednesday (C) Saturday (D) Friday

Q19. Count backward in 5s: 40, 35, 30, 25, ____

- (A) 15 (B) 21 (C) 25 (D) 20

Q20. Three of the following four are alike and form a group. Which one does NOT belong?

- (A) Sahara (B) Ganga (C) Krishna (D) Godavari

Q21. Which number comes just after 1053?

- (A) 1054 (B) 1053 (C) 1056 (D) 1055

Q22. 8 : 64 :: 9 : ____

- (A) 64 (B) 100 (C) 81 (D) 18

Q23. In a row of 20 children, Tara is 4th from the left end. What is Tara's position from the right end?

- (A) 17th (B) 16th (C) 18th (D) 19th

Q24. Pointing to a boy in a photograph, Vikram said, "He is the son of my paternal grandfather's only son." How is the boy related to Vikram?

- (A) Uncle (B) Brother (C) Cousin (D) Nephew

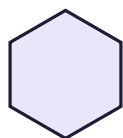
Q25. Find the next number in the pattern: 3, 9, 15, 21, ____

- (A) 27 (B) 33 (C) 28 (D) 21

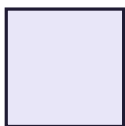
Q26. Which letter comes next? B, D, G, K, ____

- (A) O (B) P (C) N (D) Q

Q27. Which of these figures has exactly 5 lines of symmetry?



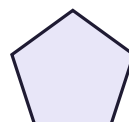
(A)



(B)



(C)



(D)

Q28. Find the next number in the pattern: 4, 9, 19, 39, ____

- (A) 77 (B) 78 (C) 80 (D) 79

Q29. If TIN is written as 20 - 9 - 14 using the positions of the letters in the alphabet, how is CUP written?

- (A) 16 - 21 - 3 (B) 24 - 6 - 11 (C) 3 - 21 - 16 (D) 4 - 22 - 17

Q30. Kabir walks 4 m towards north, turns right and walks 3 m, then turns right again and walks 4 m. How far is Kabir from the starting point, and in which direction?

- (A) 3 m, West (B) 4 m, East (C) 7 m, North (D) 3 m, East

Achievers Section

5 questions · 2 marks each · 10 marks

Q31. Find the next number: 2, 4, 8, 14, 22, ____

- (A) 34 (B) 30 (C) 32 (D) 33

Q32. There are 3 boxes with 10 laddoos in each box. If 22 laddoos are eaten, how many are left?

- (A) 8 (B) 5 (C) 30 (D) 11

Q33. How many numbers between 40 and 70 leave a remainder of 7 when divided by 8?

- (A) 2 (B) 5 (C) 4 (D) 3

Q34. The bar graph shows the number of books read by a class on each day of one week. How many books were read in the whole week?



- (A) 80 (B) 95 (C) 90 (D) 85

Q35. A gardener waters a plant but keeps it in a completely dark cupboard. The plant slowly turns yellow and dies. Why?

- (A) Water is harmful to plants in the dark (B) Plants need soil, not water
(C) Without light it cannot make food by photosynthesis (D) The cupboard has too much oxygen

Answer Key

1	2	3	4	5	6	7	8	9	10
D	C	A	B	A	D	C	A	D	B
11	12	13	14	15	16	17	18	19	20
C	D	C	D	C	B	D	B	D	A
21	22	23	24	25	26	27	28	29	30
A	C	A	B	A	B	D	D	C	D
31	32	33	34	35					
C	A	D	D	C					

Solutions

Q1. (D) The gaps grow by one each time (+2, +3, +4, +5), so after P the next letter is U.

Q2. (C) Comparing 515, 1676, 1726, 2312, the smallest is 515.

Q3. (A) Counting lines of symmetry: regular hexagon has 6, regular pentagon has 5, equilateral triangle has 3, rectangle has 2. The answer is figure (A).

Q4. (B) Each number is doubled and 2 is added: $38 \times 2 + 2 = 78$.

Q5. (A) P is letter 16 and E is letter 5 and N is letter 14, so PEN = 16 - 5 - 14.

Q6. (D) Circle has no straight sides.

Q7. (C) The two 9 m walks (north, then south) cancel out, leaving only the 6 m walked towards the east. So the answer is 6 m, East.

Q8. (A) Every other number is a multiple of 9. 21 is not.

- Q9. (D) Each letter moves 2 place(s) forward in the alphabet, so BAT becomes DCV.
- Q10. (B) The rule is: add the two numbers, then add 3. Check: 4, 5 gives 12 and 6, 2 gives 11; so 3, 6 gives 12.
- Q11. (C) Seat 1 = A, seat 3 = C, seat 5 = D. B must be between A and C, so B takes seat 2, and the only friend left for seat 4 is E.
- Q12. (D) Each letter moves 2 place(s) forward in the alphabet, so after H comes J.
- Q13. (C) 13 days later is 1 week(s) and 6 day(s), so the day moves 6 place(s) on from Saturday to Friday.
- Q14. (D) Every triangle has apex A and two of the 5 base points as its other corners. Choosing 2 from 5 gives 10 triangles.
- Q15. (C) Adding 2 to 10 gives 12.
- Q16. (B) In alphabetical order the words run matter, melon, metal, mother, so matter comes first.
- Q17. (D) The second word relates to the first in the same way Pharmacy relates to Medicine.
- Q18. (B) Counting 1 day(s) on from Tuesday gives Wednesday.
- Q19. (D) Subtracting 5 from 25 gives 20.
- Q20. (A) Ganga, Krishna, Godavari are all rivers; Sahara is not.
- Q21. (A) The number just after 1053 is 1054.
- Q22. (C) The second number is the first multiplied by itself: $8 \times 8 = 64$, so $9 \times 9 = 81$.
- Q23. (A) Position from the right = total - position from the left + 1 = $20 - 4 + 1 = 17$ th.
- Q24. (B) Vikram's paternal grandfather's only son is Vikram's own father, so that man's son is Vikram's own sibling. The answer is Brother.
- Q25. (A) Each number is 6 more than the one before it, so the next is $21 + 6 = 27$.
- Q26. (B) The gaps grow by one each time (+2, +3, +4, +5), so after K the next letter is P.
- Q27. (D) Counting lines of symmetry: regular hexagon has 6, square has 4, rectangle has 2, regular pentagon has 5. The answer is figure (D).
- Q28. (D) Each number is doubled and 1 is added: $39 \times 2 + 1 = 79$.
- Q29. (C) C is letter 3 and U is letter 21 and P is letter 16, so $CUP = 3 - 21 - 16$.
- Q30. (D) The two 4 m walks (north, then south) cancel out, leaving only the 3 m walked towards the east. So the answer is 3 m, East.
- Q31. (C) The gaps grow 2, 4, 6, 8, so the next gap is 10 and $22 + 10 = 32$.
- Q32. (A) $3 \times 10 = 30$ laddoos in all, and $30 - 22 = 8$ are left.
- Q33. (D) The numbers are 47, 55, 63 — 3 of them.
- Q34. (D) $5 + 15 + 30 + 25 + 10 = 85$ books.
- Q35. (C) Photosynthesis needs light. In the dark the plant cannot make food, so it dies even though it has water. The answer is Without light it cannot make food by photosynthesis.

Free practice paper from syllabax.com · more free sample papers for Classes 1–10 at syllabax.com/olympiad · not affiliated with SOF or any official olympiad body.