STUDENT COPY · SET B

Class 7 · Reasoning Olympiad

Total questions	Total marks	Time	Negative marking
50	60	60 minutes	None

Name: _____ Class/Section: _____ Roll no: _____

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. Your teacher has the answers.
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.

Scan for the free weekly Olympiad test - 10 questions online, score and rank. Free.
syllabax.com/olympiad/class/7

Logical Reasoning

45 questions · 1 mark each · 45 marks

Q1. Pointing to a boy in a photograph, Rahul said, “This boy is not me, but he is the son of my paternal grandfather’s only son.” How is the boy related to Rahul?

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

Q2. Which letter comes next? L, N, P, R, ___

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

Q3. Kabir walks 8 m towards north, turns right and walks 3 m, then turns right again and walks 8 m. How far is Kabir from the starting point, and in which direction?

(A) 8 m, East (B) 11 m, North (C) 3 m, East (D) 3 m, West

Q4. If TIN is written as 20 - 9 - 14 using the positions of the letters in the alphabet, how is MAP written?

(A) 14 - 2 - 17 (B) 13 - 1 - 16 (C) 16 - 1 - 13 (D) 14 - 26 - 11

Q5. In a class, 20 students play cricket, 10 play football and 5 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 20 (B) 25 (C) 26 (D) 30

Q6. If the 18th of a month is a Wednesday, what day of the week is the 27th of the same month?

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

Q7. In a queue, Suresh is 6th from the front and 7th from the back. How many people are in the queue altogether?

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

Q8. Find the next number in the pattern: 2, 7, 17, 37, ___

(A) 80 (B) 74 (C) 77 (D) 75

Q9. In the first row the numbers are 5, 7 and 32. In the second row they are 6, 4 and 40. In the third row they are 5, 4 and ___ . The same rule applies to every row.

(A) 29 (B) 30 (C) 31 (D) 28

Q10. 6 : 36 :: 10 : ___

(A) 121 (B) 81 (C) 100 (D) 20

Q11. A father is 30 years older than his son. The son is 13 years old now. How old will the father be after 3 years?

(A) 43 years (B) 49 years (C) 47 years (D) 46 years

Q12. All but one of these numbers are multiples of the same number. Find the one that is not: 6, 9, 17, 18, 33

(A) 18 (B) 33 (C) 17 (D) 9

Q13. In a row of 32 children, Arjun is 24th from the left end. What is Arjun's position from the right end?

(A) 11th (B) 8th (C) 10th (D) 9th

Q14. Nila walks 10 m north, then 8 m east, then 5 m south. Where is Nila now, relative to the starting point?

(A) 6 m north and 8 m east (B) 5 m north and 9 m east

(C) 5 m north and 8 m east (D) 10 m north and 8 m east

Q15. In a certain code JAR is written as NEV. How is BAT written in that code?

(A) GFY (B) XWP (C) XEF (D) FEX

Q16. Which letter comes next? K, M, O, Q, ___

(A) U (B) R (C) S (D) T

Q17. Meera walks 7 m towards north, turns right and walks 2 m, then turns right again and walks 7 m. How far is Meera from the starting point, and in which direction?

(A) 9 m, North (B) 2 m, West (C) 2 m, East (D) 7 m, East

Q18. Which letter comes next? C, E, H, L, ___

(A) Q (B) O (C) R (D) P

Q19. If JAR is written as 10 - 1 - 18 using the positions of the letters in the alphabet, how is BAG written?

(A) 25 - 26 - 20 (B) 7 - 1 - 2 (C) 2 - 1 - 7 (D) 3 - 2 - 8

Q20. In a class, 12 students play cricket, 17 play football and 8 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 21 (B) 13 (C) 29 (D) 22

Q21. If the 18th of a month is a Friday, what day of the week is the 29th of the same month?

(A) Monday (B) Tuesday (C) Thursday (D) Wednesday

Q22. Read the statements and choose the conclusion that MUST be true.
All metals conduct electricity. Copper is a metal.

(A) Copper conducts electricity. (B) All conductors are copper.

(C) Only copper is a metal. (D) Copper does not conduct electricity.

Q23. In a queue, Deep is 7th from the front and 6th from the back. How many people are in the queue altogether?

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

Q24. Find the next number in the pattern: 3, 9, 21, 45, ___

(A) 90 (B) 93 (C) 96 (D) 91

Q25. 7 : 49 :: 4 : ___

(A) 9 (B) 8 (C) 25 (D) 16

Q26. A father is 22 years older than his son. The son is 6 years old now. How old will the father be after 2 years?

(A) 31 years (B) 32 years (C) 30 years (D) 28 years

Q27. Which of these figures has exactly 4 lines of symmetry?



(A) (B) (C) (D)

Q28. In a row of 36 children, Sana is 26th from the left end. What is Sana's position from the right end?

(A) 12th (B) 10th (C) 11th (D) 13th

Q29. Nila walks 10 m north, then 5 m east, then 6 m south. Where is Nila now, relative to the starting point?

(A) 10 m north and 5 m east (B) 5 m north and 5 m east

(C) 4 m north and 6 m east (D) 4 m north and 5 m east

Q30. In a certain code JAR is written as LCT. How is MAP written in that code?

(A) RCO (B) PDS (C) KYN (D) OCR

Q31. Anita walks 7 m towards north, turns right and walks 8 m, then turns right again and walks 7 m. How far is Anita from the starting point, and in which direction?

(A) 7 m, East (B) 8 m, West (C) 15 m, North (D) 8 m, East

Q32. Which letter comes next? E, G, J, N, ___

(A) R (B) Q (C) T (D) S

Q33. If TIN is written as 20 - 9 - 14 using the positions of the letters in the alphabet, how is BAG written?

(A) 7 - 1 - 2 (B) 3 - 2 - 8 (C) 2 - 1 - 7 (D) 25 - 26 - 20

Q34. In a class, 17 students play cricket, 17 play football and 10 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 14 (B) 24 (C) 34 (D) 25

Q35. If the 10th of a month is a Sunday, what day of the week is the 19th of the same month?

(A) Wednesday (B) Tuesday (C) Thursday (D) Monday

Q36. In a queue, Farah is 7th from the front and 10th from the back. How many people are in the queue altogether?

(A) 16 (B) 18 (C) 17 (D) 15

Q37. In the first row the numbers are 8, 5 and 41. In the second row they are 9, 7 and 64. In the third row they are 7, 5 and ___ . The same rule applies to every row.

(A) 36 (B) 37 (C) 35 (D) 38

Q38. 3 : 9 :: 5 : ___

(A) 36 (B) 16 (C) 10 (D) 25

Q39. A father is 22 years older than his son. The son is 12 years old now. How old will the father be after 4 years?

(A) 42 years (B) 38 years (C) 39 years (D) 34 years

Q40. All but one of these numbers are multiples of the same number. Find the one that is not: 27, 36, 45, 81, 96

(A) 45 (B) 81 (C) 96 (D) 27

Q41. In a row of 36 children, Ravi is 31st from the left end. What is Ravi's position from the right end?

(A) 8th (B) 6th (C) 5th (D) 7th

Q42. Nila walks 6 m north, then 6 m east, then 3 m south. Where is Nila now, relative to the starting point?

(A) 6 m north and 6 m east (B) 3 m north and 7 m east

(C) 3 m north and 6 m east (D) 4 m north and 6 m east

Q43. In a certain code BUS is written as CVT. How is BAT written in that code?

(A) AZS (B) DCV (C) UBC (D) CBU

Q44. Which letter comes next? F, J, N, R, ___

(A) V (B) Z (C) W (D) U

Q45. Riya walks 5 m towards north, turns right and walks 8 m, then turns right again and walks 5 m. How far is Riya from the starting point, and in which direction?

(A) 8 m, West (B) 8 m, East (C) 13 m, North (D) 5 m, East

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. If BOOK is coded as CPPL, how is GATE coded?

(A) FZSD (B) ICVG (C) FUBH (D) HBUF

Q47. If BOOK is coded as GTTP, how is ROAD coded?

(A) BYKN (B) WTFI (C) MJVY (D) IFTW

Q48. Find the next number: 4, 6, 10, 16, 24, ___

(A) 35 (B) 36 (C) 34 (D) 32

Q49. If FISH is coded as HKUJ, how is ROAD coded?

(A) PMYB (B) FCQT (C) TQCF (D) VSEH

Q50. If RING is coded as TKPI, how is GATE coded?

(A) ICVG (B) KEXI (C) EYRC (D) GVCI

Free practice paper from syllabax.com · not affiliated with SOF or any official olympiad body.