STUDENT COPY · SET A

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.

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Logical Reasoning

45 questions · 1 mark each · 45 marks

Q1. Find the next number in the pattern: 4, 10, 22, 46, ___

(A) 94 (B) 95 (C) 92 (D) 96

Q2. If the 12th of a month is a Monday, what day of the week is the 25th of the same month?

(A) Tuesday (B) Saturday (C) Sunday (D) Monday

Q3. Three of the following four are alike and form a group. Which one does NOT belong?

(A) Train (B) Table (C) Truck (D) Bus

Q4. A father is 28 years older than his son. The son is 9 years old now. How old will the father be after 3 years?

(A) 37 years (B) 41 years (C) 43 years (D) 40 years

Q5. Read the statements and choose the conclusion that MUST be true.
All squares are rectangles. All rectangles have four sides.

(A) All squares have four sides. (B) No rectangle is a square.

(C) All rectangles are squares. (D) Some squares have three sides.

Q6. All but one of these numbers are multiples of the same number. Find the one that is not: 26, 60, 72, 96, 108

(A) 26 (B) 108 (C) 60 (D) 72

Q7. 6 : 36 :: 9 : ___

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

Q8. In a certain code BUS is written as FYW. How is PEN written in that code?

(A) TIR (B) LAJ (C) RIT (D) UJS

Q9. Which one does NOT belong with the others?

(A) Bat (B) Eagle (C) Crow (D) Sparrow

Q10. Which word would come FIRST in a dictionary?

(A) marble (B) mother (C) minute (D) maple

Q11. Which letter comes next? A, C, F, J, ___

(A) P (B) O (C) M (D) N

Q12. 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?

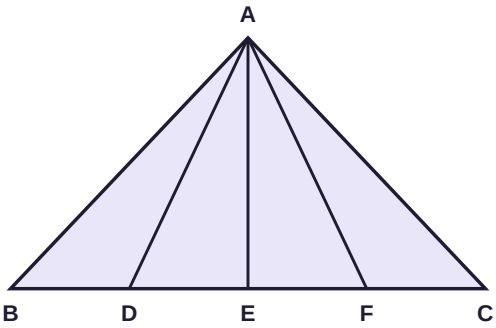
(A) C (B) B (C) D (D) E

Q13. Nila walks 10 m north, then 9 m east, then 7 m south. Where is Nila now, relative to the starting point?

(A) 4 m north and 9 m east (B) 3 m north and 9 m east

(C) 3 m north and 10 m east (D) 10 m north and 9 m east

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



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

Q15. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is PEN written?

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

Q16. In a class, 15 students play cricket, 11 play football and 6 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 20 (B) 26 (C) 14 (D) 21

Q17. Pointing to a boy in a photograph, Anjali said, “This boy is not me, but he is the son of my paternal grandfather’s only son.” How is the boy related to Anjali?

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

Q18. Which of these figures has exactly 3 lines of symmetry?



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

Q19. In the first row the numbers are 2, 9 and 17. In the second row they are 2, 3 and 5. In the third row they are 8, 9 and ___ . The same rule applies to every row.

(A) 70 (B) 73 (C) 72 (D) 71

Q20. Anita walks 9 m towards north, turns right and walks 6 m, then turns right again and walks 9 m. How far is Anita from the starting point, and in which direction?

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

Q21. In a row of 22 children, Arjun is 16th from the left end. What is Arjun's position from the right end?

(A) 7th (B) 6th (C) 8th (D) 9th

Q22. In a queue, Farah is 7th from the front and 5th from the back. How many people are in the queue altogether?

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

Q23. Which letter comes next? C, G, K, O, ___

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

Q24. Find the next number in the pattern: 4, 11, 25, 53, ___

(A) 109 (B) 107 (C) 112 (D) 106

Q25. If the 12th of a month is a Wednesday, what day of the week is the 29th of the same month?

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

Q26. A father is 24 years older than his son. The son is 14 years old now. How old will the father be after 2 years?

(A) 42 years (B) 41 years (C) 40 years (D) 38 years

Q27. Read the statements and choose the conclusion that MUST be true.
Every student in the class has a pencil. Rahul is a student in the class.

(A) Only Rahul has a pencil. (B) Rahul has a pencil.

(C) Some students have no pencil. (D) Rahul has no pencil.

Q28. 6 : 36 :: 3 : ___

(A) 4 (B) 16 (C) 6 (D) 9

Q29. In a certain code HAT is written as LEX. How is MAP written in that code?

(A) RFU (B) IWL (C) TEQ (D) QET

Q30. Which letter comes next? B, D, G, K, ___

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

Q31. If TIN is written as 20 - 9 - 14 using the positions of the letters in the alphabet, how is CAT written?

(A) 24 - 26 - 7 (B) 20 - 1 - 3 (C) 3 - 1 - 20 (D) 4 - 2 - 21

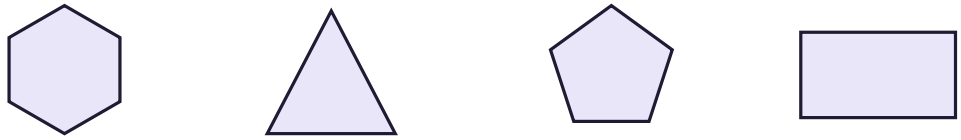
Q32. In a class, 15 students play cricket, 12 play football and 6 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 15 (B) 22 (C) 27 (D) 21

Q33. Pointing to a boy in a photograph, Vikram said, "This boy is not me, but he is the son of my paternal grandfather's only son." How is the boy related to Vikram?

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

Q34. Which of these figures has exactly 6 lines of symmetry?



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

Q35. In the first row the numbers are 9, 7 and 66. In the second row they are 4, 7 and 31. In the third row they are 9, 5 and ___ . The same rule applies to every row.

(A) 49 (B) 48 (C) 47 (D) 50

Q36. Anita walks 8 m towards north, turns right and walks 4 m, then turns right again and walks 8 m. How far is Anita from the starting point, and in which direction?

(A) 12 m, North (B) 4 m, West (C) 4 m, East (D) 8 m, East

Q37. In a row of 29 children, Imran is 5th from the left end. What is Imran's position from the right end?

(A) 27th (B) 24th (C) 25th (D) 26th

Q38. In a queue, Deep is 4th from the front and 6th from the back. How many people are in the queue altogether?

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

Q39. Which letter comes next? I, K, M, O, ___

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

Q40. Find the next number in the pattern: 2, 5, 11, 23, ___

(A) 47 (B) 46 (C) 45 (D) 48

Q41. If the 12th of a month is a Sunday, what day of the week is the 29th of the same month?

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

Q42. A father is 27 years older than his son. The son is 6 years old now. How old will the father be after 3 years?

(A) 33 years (B) 36 years (C) 37 years (D) 39 years

Q43. All but one of these numbers are multiples of the same number. Find the one that is not: 14, 33, 49, 70, 77

(A) 77 (B) 14 (C) 33 (D) 70

Q44. 6 : 36 :: 5 : ___

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

Q45. In a certain code BUS is written as FYW. How is SUN written in that code?

(A) OQJ (B) WYR (C) RYW (D) XZS

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. If RING is coded as VMRK, how is WIND coded?

(A) SEJZ (B) HRMA (C) EQVL (D) AMRH

Q47. Find the next number: 5, 7, 11, 17, 25, ___

(A) 36 (B) 35 (C) 33 (D) 37

Q48. If RING is coded as ULQJ, how is ROAD coded?

(A) OLXA (B) XUGJ (C) URDG (D) GDRU

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

(A) XUGJ (B) URDG (C) OLXA (D) GDRU

Q50. Find the next number: 2, 4, 8, 14, 22, ___

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

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