STUDENT COPY · SET A

Class 5 · 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. In a certain code HAT is written as IBU. How is PEN written in that code?

(A) QFO (B) RGP (C) OFQ (D) ODM

Q2. Three of the following four are alike and form a group. Which one does NOT belong?

(A) Everest (B) Krishna (C) Yamuna (D) Godavari

Q3. Kabir walks 8 m towards north, turns right and walks 5 m, then turns right again and walks 8 m. How far is Kabir from the starting point, and in which direction?

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

Q4. A father is 29 years older than his son. The son is 5 years old now. How old will the father be after 7 years?

(A) 34 years (B) 42 years (C) 41 years (D) 48 years

Q5. In a row of 22 children, Tara is 5th from the left end. What is Tara's position from the right end?

(A) 19th (B) 18th (C) 17th (D) 20th

Q6. If the 18th of a month is a Monday, what day of the week is the 31st of the same month?

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

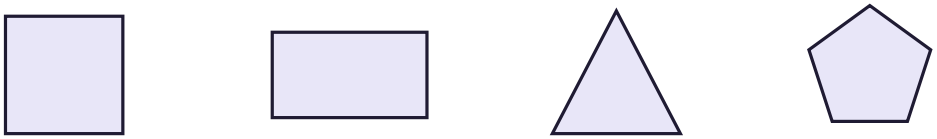
Q7. Pointing to a boy in a photograph, Meera said, "This boy is not me, but he is the son of my paternal grandfather's only son." How is the boy related to Meera?

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

Q8. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is PEN written?

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

Q9. Which of these figures has exactly 5 lines of symmetry?



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

Q10. In the first row the numbers are 3, 7 and 24. In the second row they are 9, 2 and 21. In the third row they are 6, 7 and ___ . The same rule applies to every row.

(A) 47 (B) 44 (C) 46 (D) 45

Q11. 3 : 9 :: 4 : ___

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

Q12. In a queue, Farah is 9th from the front and 5th from the back. How many people are in the queue altogether?

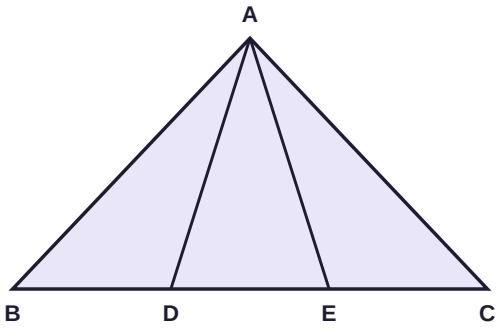
(A) 13 (B) 14 (C) 12 (D) 15

Q13. Ravi walks 7 m north, then 6 m east, then 5 m south. Where is Ravi now, relative to the starting point?

(A) 7 m north and 6 m east (B) 2 m north and 7 m east

(C) 3 m north and 6 m east (D) 2 m north and 6 m east

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



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

Q15. Find the next number in the pattern: 4, 10, 22, 46, ___

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

Q16. Which one does NOT belong with the others?

(A) August (B) April (C) July (D) January

Q17. Which word would come FIRST in a dictionary?

(A) matter (B) melon (C) metal (D) maple

Q18. Which letter comes next? F, H, K, O, ___

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

Q19. 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) D (B) E (C) C (D) B

Q20. Which letter comes next? D, H, L, P, ___

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

Q21. All but one of these numbers are multiples of the same number. Find the one that is not: 15, 49, 56, 63, 77

(A) 56 (B) 15 (C) 49 (D) 77

Q22. In a class, 18 students play cricket, 13 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) 27 (B) 26 (C) 21 (D) 31

Q23. In a certain code JAR is written as MDU. How is PEN written in that code?

(A) SHQ (B) QHS (C) TIR (D) MBK

Q24. Riya walks 5 m towards north, turns right and walks 7 m, then turns right again and walks 5 m. How far is Riya from the starting point, and in which direction?

(A) 7 m, West (B) 12 m, North (C) 5 m, East (D) 7 m, East

Q25. A father is 26 years older than his son. The son is 7 years old now. How old will the father be after 7 years?

(A) 41 years (B) 47 years (C) 33 years (D) 40 years

Q26. In a row of 26 children, Tara is 5th from the left end. What is Tara's position from the right end?

(A) 22nd (B) 23rd (C) 24th (D) 21st

Q27. If the 8th of a month is a Wednesday, what day of the week is the 19th of the same month?

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

Q28. 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) Brother (B) Uncle (C) Cousin (D) Nephew

Q29. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is CUP written?

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

Q30. Which of these figures has exactly 3 lines of symmetry?



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

Q31. In the first row the numbers are 6, 9 and 56. In the second row they are 5, 8 and 42. In the third row they are 9, 8 and ___ . The same rule applies to every row.

(A) 76 (B) 73 (C) 74 (D) 75

Q32. 3 : 9 :: 6 : ___

(A) 49 (B) 25 (C) 36 (D) 37

Q33. In a queue, Deep is 6th from the front and 6th from the back. How many people are in the queue altogether?

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

Q34. Find the next number in the pattern: 2, 7, 17, 37, ___

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

Q35. Which letter comes next? E, G, J, N, ___

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

Q36. Which letter comes next? E, I, M, Q, ___

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

Q37. All but one of these numbers are multiples of the same number. Find the one that is not: 48, 72, 92, 108, 132

(A) 92 (B) 48 (C) 108 (D) 132

Q38. In a class, 11 students play cricket, 17 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) 28 (B) 22 (C) 23 (D) 16

Q39. In a certain code FAN is written as JER. How is SUN written in that code?

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

Q40. Anita walks 4 m towards north, turns right and walks 6 m, then turns right again and walks 4 m. How far is Anita from the starting point, and in which direction?

(A) 6 m, West (B) 4 m, East (C) 10 m, North (D) 6 m, East

Q41. A father is 27 years older than his son. The son is 8 years old now. How old will the father be after 3 years?

(A) 38 years (B) 39 years (C) 41 years (D) 35 years

Q42. In a row of 31 children, Sana is 27th from the left end. What is Sana's position from the right end?

(A) 6th (B) 5th (C) 7th (D) 4th

Q43. If the 15th of a month is a Sunday, what day of the week is the 28th of the same month?

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

Q44. In the first row the numbers are 9, 3 and 28. In the second row they are 4, 9 and 37. In the third row they are 9, 9 and ___ . The same rule applies to every row.

(A) 84 (B) 83 (C) 82 (D) 81

Q45. 7 : 49 :: 3 : ___

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

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. Find the next number: 6, 8, 12, 18, 26, ___

(A) 36 (B) 37 (C) 38 (D) 34

Q47. If FISH is coded as ILVK, how is MILK coded?

(A) JFIH (B) PLON (C) NOLP (D) SORQ

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

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

Q49. If DESK is coded as FGUM, how is MILK coded?

(A) QMPO (B) MNKO (C) OKNM (D) KGJI

Q50. If FISH is coded as JMWL, how is GATE coded?

(A) OIBM (B) CWPA (C) IXEK (D) KEXI

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