STUDENT COPY · SET A

Class 8 · 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. Which one does NOT belong with the others?

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

Q2. In a row of 36 children, Arjun is 15th from the left end. What is Arjun's position from the right end?

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

Q3. A father is 28 years older than his son. The son is 6 years old now. How old will the father be after 3 years?

(A) 34 years (B) 38 years (C) 40 years (D) 37 years

Q4. 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) D (C) B (D) E

Q5. All but one of these numbers are multiples of the same number. Find the one that is not: 8, 12, 28, 42, 44

(A) 12 (B) 28 (C) 42 (D) 8

Q6. Anita walks 6 m towards north, turns right and walks 8 m, then turns right again and walks 6 m. How far is Anita from the starting point, and in which direction?

(A) 8 m, West (B) 6 m, East (C) 14 m, North (D) 8 m, East

Q7. In the first row the numbers are 9, 7 and 32. In the second row they are 8, 9 and 34. In the third row they are 4, 6 and ___ . The same rule applies to every row.

(A) 19 (B) 22 (C) 21 (D) 20

Q8. If the 10th of a month is a Thursday, what day of the week is the 19th of the same month?

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

Q9. In a queue, Deep is 9th from the front and 7th from the back. How many people are in the queue altogether?

(A) 14 (B) 15 (C) 17 (D) 16

Q10. Which letter comes next? E, G, J, N, ___

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

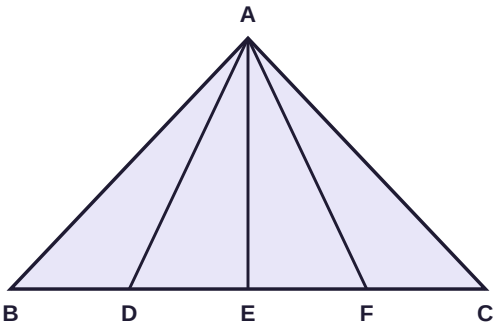
Q11. Three of the following four are alike and form a group. Which one does NOT belong?

(A) Godavari (B) Yamuna (C) Sahara (D) Ganga

Q12. 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) Brother (D) Nephew

Q13. How many triangles are there in the given figure?



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

Q14. Which word would come FIRST in a dictionary?

(A) monkey (B) melon (C) mother (D) maple

Q15. Read the statements and choose the conclusion that MUST be true.
All roses are flowers. All flowers need water.

(A) All flowers are roses. (B) Some roses do not need water.

(C) Only roses need water. (D) All roses need water.

Q16. 9 : 81 :: 5 : ___

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

Q17. Which letter comes next? C, G, K, O, ___

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

Q18. In a certain code TIN is written as VKP. How is CUP written in that code?

(A) ASN (B) FXS (C) RWE (D) EWR

Q19. In a class, 20 students play cricket, 16 play football and 9 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 28 (B) 27 (C) 36 (D) 18

Q20. Find the next number in the pattern: 5, 11, 23, 47, ___

(A) 95 (B) 96 (C) 94 (D) 93

Q21. Which of these figures has exactly 4 lines of symmetry?



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

Q22. If RAT is written as 18 - 1 - 20 using the positions of the letters in the alphabet, how is INK written?

(A) 9 - 14 - 11 (B) 10 - 15 - 12 (C) 11 - 14 - 9 (D) 18 - 13 - 16

Q23. In a row of 35 children, Imran is 17th from the left end. What is Imran's position from the right end?

(A) 20th (B) 18th (C) 19th (D) 21st

Q24. A father is 34 years older than his son. The son is 10 years old now. How old will the father be after 3 years?

(A) 47 years (B) 50 years (C) 48 years (D) 44 years

Q25. All but one of these numbers are multiples of the same number. Find the one that is not: 14, 28, 35, 42, 83

(A) 42 (B) 28 (C) 14 (D) 83

Q26. Arjun walks 4 m towards north, turns right and walks 7 m, then turns right again and walks 4 m. How far is Arjun from the starting point, and in which direction?

(A) 4 m, East (B) 7 m, East (C) 11 m, North (D) 7 m, West

Q27. In the first row the numbers are 4, 6 and 27. In the second row they are 7, 9 and 66. In the third row they are 3, 9 and ___ . The same rule applies to every row.

(A) 32 (B) 31 (C) 30 (D) 29

Q28. If the 15th of a month is a Wednesday, what day of the week is the 31st of the same month?

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

Q29. Ravi walks 6 m north, then 4 m east, then 4 m south. Where is Ravi now, relative to the starting point?

(A) 2 m north and 5 m east (B) 6 m north and 4 m east

(C) 3 m north and 4 m east (D) 2 m north and 4 m east

Q30. In a queue, Farah is 4th from the front and 7th from the back. How many people are in the queue altogether?

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

Q31. Which letter comes next? C, E, H, L, ___

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

Q32. 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) Nephew (B) Brother (C) Uncle (D) Cousin

Q33. Read the statements and choose the conclusion that MUST be true.
All squares are rectangles. All rectangles have four sides.

(A) All rectangles are squares.
(B) Some squares have three sides.
(C) All squares have four sides.
(D) No rectangle is a square.

Q34. 11 : 121 :: 6 : ___

(A) 49 (B) 36 (C) 25 (D) 12

Q35. Which letter comes next? N, P, R, T, ___

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

Q36. In a certain code FAN is written as IDQ. How is PEN written in that code?

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

Q37. In a class, 14 students play cricket, 17 play football and 4 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 27 (B) 31 (C) 23 (D) 28

Q38. Find the next number in the pattern: 4, 11, 25, 53, ___

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

Q39. Which of these figures has exactly 6 lines of symmetry?



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

Q40. If RAT is written as 18 - 1 - 20 using the positions of the letters in the alphabet, how is SUN written?

(A) 19 - 21 - 14 (B) 20 - 22 - 15 (C) 14 - 21 - 19 (D) 8 - 6 - 13

Q41. In a row of 32 children, Ravi is 6th from the left end. What is Ravi's position from the right end?

(A) 29th (B) 27th (C) 26th (D) 28th

Q42. A father is 28 years older than his son. The son is 8 years old now. How old will the father be after 5 years?

(A) 36 years (B) 41 years (C) 46 years (D) 42 years

Q43. All but one of these numbers are multiples of the same number. Find the one that is not: 21, 35, 63, 73, 77

(A) 73 (B) 77 (C) 35 (D) 21

Q44. Riya walks 7 m towards north, turns right and walks 8 m, then turns right again and walks 7 m. How far is Riya from the starting point, and in which direction?

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

Q45. In the first row the numbers are 5, 3 and 13. In the second row they are 9, 8 and 70. In the third row they are 7, 6 and ___ . The same rule applies to every row.

(A) 40 (B) 39 (C) 41 (D) 42

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. Find the next number: 2, 4, 8, 14, 22, ___

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

Q47. If DESK is coded as EFTL, how is GATE coded?

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

Q48. If DESK is coded as EFTL, how is ROAD coded?

(A) EBPS (B) QNZC (C) TQCF (D) SPBE

Q49. Find the next number: 3, 5, 9, 15, 23, ___

(A) 31 (B) 33 (C) 34 (D) 35

Q50. If LAMP is coded as QFRU, how is WIND coded?

(A) RDIY (B) ISNB (C) BNSI (D) GSXN

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