STUDENT COPY · SET A

Class 6 · 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. Ravi walks 9 m north, then 5 m east, then 5 m south. Where is Ravi now, relative to the starting point?

(A) 9 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

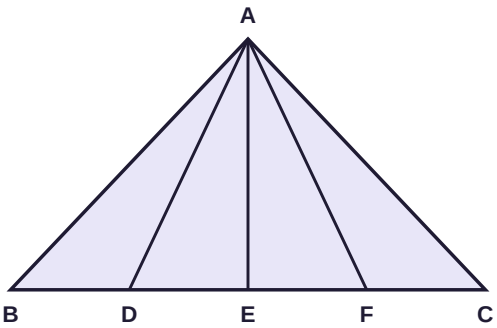
Q2. If the 18th of a month is a Saturday, what day of the week is the 27th of the same month?

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

Q3. If JAR is written as 10 - 1 - 18 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

Q4. How many triangles are there in the given figure?



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

Q5. Three of the following four are alike and form a group. Which one does NOT belong?

(A) Silver (B) Copper (C) Gold (D) Paper

Q6. In a queue, Farah is 10th from the front and 12th from the back. How many people are in the queue altogether?

(A) 21 (B) 23 (C) 20 (D) 22

Q7. 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) Brother (B) Nephew (C) Uncle (D) Cousin

Q8. Which letter comes next? D, F, I, M, ___

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

Q9. Which letter comes next? F, I, L, O, ___

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

Q10. All but one of these numbers are multiples of the same number. Find the one that is not: 17, 21, 42, 49, 77

(A) 42 (B) 17 (C) 21 (D) 49

Q11. Which word would come FIRST in a dictionary?

(A) melon (B) monkey (C) metal (D) minute

Q12. Anita walks 8 m towards north, turns right and walks 5 m, then turns right again and walks 8 m. How far is Anita from the starting point, and in which direction?

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

Q13. Read the statements and choose the conclusion that MUST be true.
All metals conduct electricity. Copper is a metal.

(A) Copper conducts electricity. (B) Copper does not conduct electricity.

(C) All conductors are copper. (D) Only copper is a metal.

Q14. In a row of 33 children, Arjun is 11th from the left end. What is Arjun’s position from the right end?

(A) 25th (B) 24th (C) 22nd (D) 23rd

Q15. Which one does NOT belong with the others?

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

Q16. In a class, 9 students play cricket, 16 play football and 3 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 25 (B) 23 (C) 19 (D) 22

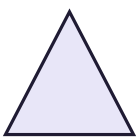
Q17. 4 : 16 :: 6 : ___

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

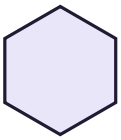
Q18. Find the next number in the pattern: 5, 12, 26, 54, ___

(A) 108 (B) 112 (C) 111 (D) 110

Q19. Which of these figures has exactly 4 lines of symmetry?



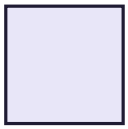
(A)



(B)



(C)



(D)

Q20. A father is 34 years older than his son. The son is 5 years old now. How old will the father be after 6 years?

(A) 39 years (B) 45 years (C) 51 years (D) 46 years

Q21. In a certain code BUS is written as EXV. How is PEN written in that code?

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

Q22. In the first row the numbers are 9, 4 and 35. In the second row they are 9, 8 and 71. In the third row they are 8, 8 and ___ . The same rule applies to every row.

(A) 62 (B) 65 (C) 63 (D) 64

Q23. 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) D (C) C (D) E

Q24. Nila walks 5 m north, then 4 m east, then 2 m south. Where is Nila now, relative to the starting point?

(A) 3 m north and 5 m east (B) 4 m north and 4 m east

(C) 5 m north and 4 m east (D) 3 m north and 4 m east

Q25. If the 10th of a month is a Wednesday, what day of the week is the 19th of the same month?

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

Q26. If RAT is written as 18 - 1 - 20 using the positions of the letters in the alphabet, how is MAP written?

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

Q27. In a queue, Nita is 9th from the front and 6th from the back. How many people are in the queue altogether?

(A) 14 (B) 16 (C) 13 (D) 15

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

Q29. Which letter comes next? A, C, F, J, ___

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

Q30. Which letter comes next? O, Q, S, U, ___

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

Q31. Anita walks 3 m towards north, turns right and walks 6 m, then turns right again and walks 3 m. How far is Anita from the starting point, and in which direction?

(A) 6 m, West (B) 6 m, East (C) 3 m, East (D) 9 m, North

Q32. 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) Some squares have three sides. (D) All rectangles are squares.

Q33. In a row of 22 children, Imran is 16th from the left end. What is Imran's position from the right end?

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

Q34. In a class, 20 students play cricket, 22 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) 33 (B) 34 (C) 24 (D) 42

Q35. 5 : 25 :: 10 : ___

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

Q36. Find the next number in the pattern: 4, 9, 19, 39, ___

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

Q37. Which of these figures has exactly 5 lines of symmetry?



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

Q38. A father is 34 years older than his son. The son is 15 years old now. How old will the father be after 6 years?

(A) 49 years (B) 61 years (C) 55 years (D) 56 years

Q39. In a certain code TIN is written as WLQ. How is PEN written in that code?

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

Q40. In the first row the numbers are 3, 4 and 14. In the second row they are 2, 3 and 8. In the third row they are 7, 7 and ___ . The same rule applies to every row.

(A) 53 (B) 52 (C) 50 (D) 51

Q41. Nila walks 8 m north, then 5 m east, then 4 m south. Where is Nila now, relative to the starting point?

(A) 8 m north and 5 m east (B) 4 m north and 5 m east

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

Q42. If the 15th of a month is a Tuesday, what day of the week is the 31st of the same month?

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

Q43. 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

Q44. In a queue, Farah is 7th from the front and 11th from the back. How many people are in the queue altogether?

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

Q45. 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) Cousin (B) Brother (C) Uncle (D) Nephew

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. If DESK is coded as IJXP, how is ROAD coded?

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

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

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

Q48. If BOOK is coded as GTTP, how is WIND coded?

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

Q49. Find the next number: 4, 6, 10, 16, 24, ___

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

Q50. If BOOK is coded as DQQM, how is WIND coded?

(A) YKPF (B) AMRH (C) UGLB (D) FPKY

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