STUDENT COPY · SET B

Class 9 · 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.
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Logical Reasoning

45 questions · 1 mark each · 45 marks

Q1. If TIN is written as 20 - 9 - 14 using the positions of the letters in the alphabet, how is SUN written?
(A) 14 - 21 - 19 (B) 8 - 6 - 13 (C) 20 - 22 - 15 (D) 19 - 21 - 14

Q2. Which letter comes next? O, Q, S, U, ___
(A) V (B) X (C) Y (D) W

Q3. Which letter comes next? F, H, K, O, ___
(A) R (B) U (C) S (D) T

Q4. Arjun walks 3 m towards north, turns right and walks 5 m, then turns right again and walks 3 m. How far is Arjun from the starting point, and in which direction?
(A) 3 m, East (B) 5 m, West (C) 5 m, East (D) 8 m, North

Q5. In a certain code BUS is written as FYW. How is SUN written in that code?
(A) XZS (B) WYR (C) RYW (D) OQJ

Q6. Find the next number in the pattern: 4, 9, 19, 39, ___
(A) 80 (B) 77 (C) 78 (D) 79

Q7. All but one of these numbers are multiples of the same number. Find the one that is not: 12, 18, 21, 26, 27
(A) 12 (B) 18 (C) 26 (D) 27

Q8. In a queue, Farah is 12th from the front and 10th from the back. How many people are in the queue altogether?
(A) 21 (B) 23 (C) 20 (D) 22

Q9. In a row of 41 children, Tara is 16th from the left end. What is Tara's position from the right end?
(A) 25th (B) 26th (C) 27th (D) 28th

Q10. Sima walks 5 m north, then 5 m east, then 4 m south. Where is Sima now, relative to the starting point?

(A) 1 m north and 6 m east (B) 1 m north and 5 m east

(C) 2 m north and 5 m east (D) 5 m north and 5 m east

Q11. A father is 31 years older than his son. The son is 11 years old now. How old will the father be after 5 years?

(A) 52 years (B) 47 years (C) 48 years (D) 42 years

Q12. In the first row the numbers are 7, 8 and 55. In the second row they are 4, 3 and 11. In the third row they are 7, 2 and ___ . The same rule applies to every row.

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

Q13. 3 : 9 :: 7 : ___

(A) 36 (B) 14 (C) 64 (D) 49

Q14. If the 8th of a month is a Tuesday, what day of the week is the 21st of the same month?

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

Q15. In a class, 21 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) 19 (C) 29 (D) 37

Q16. If TIN is written as 20 - 9 - 14 using the positions of the letters in the alphabet, how is INK written?

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

Q17. Which letter comes next? E, G, J, N, ___

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

Q18. Arjun walks 3 m towards north, turns right and walks 2 m, then turns right again and walks 3 m. How far is Arjun from the starting point, and in which direction?

(A) 3 m, East (B) 2 m, West (C) 5 m, North (D) 2 m, East

Q19. In a certain code TIN is written as VKP. How is SUN written in that code?

(A) UWP (B) VXQ (C) PWU (D) QSL

Q20. Find the next number in the pattern: 5, 12, 26, 54, ___

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

Q21. All but one of these numbers are multiples of the same number. Find the one that is not: 6, 15, 20, 21, 27

(A) 20 (B) 6 (C) 15 (D) 27

Q22. In a queue, Nita is 12th from the front and 4th from the back. How many people are in the queue altogether?

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

Q23. 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) Only roses need water.

(C) All roses need water. (D) Some roses do not need water.

Q24. In a row of 36 children, Sana is 23rd from the left end. What is Sana's position from the right end?

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

Q25. Nila walks 10 m north, then 6 m east, then 3 m south. Where is Nila now, relative to the starting point?

(A) 8 m north and 6 m east (B) 7 m north and 6 m east

(C) 10 m north and 6 m east (D) 7 m north and 7 m east

Q26. A father is 23 years older than his son. The son is 6 years old now. How old will the father be after 2 years?

(A) 32 years (B) 29 years (C) 31 years (D) 33 years

Q27. In the first row the numbers are 5, 8 and 33. In the second row they are 2, 3 and 7. In the third row they are 6, 7 and ___ . The same rule applies to every row.

(A) 44 (B) 43 (C) 45 (D) 42

Q28. 10 : 100 :: 5 : ___

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

Q29. If the 12th of a month is a Tuesday, what day of the week is the 23rd of the same month?

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

Q30. In a class, 14 students play cricket, 20 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) 34 (B) 26 (C) 25 (D) 16

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

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

Q32. Which letter comes next? F, J, N, R, ___

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

Q33. Which letter comes next? B, D, G, K, ___

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

Q34. Riya walks 9 m towards north, turns right and walks 7 m, then turns right again and walks 9 m. How far is Riya from the starting point, and in which direction?

(A) 9 m, East (B) 16 m, North (C) 7 m, West (D) 7 m, East

Q35. In a certain code BUS is written as EXV. How is SUN written in that code?

(A) QXV (B) WYR (C) PRK (D) VXQ

Q36. Find the next number in the pattern: 3, 8, 18, 38, ___

(A) 78 (B) 80 (C) 76 (D) 79

Q37. All but one of these numbers are multiples of the same number. Find the one that is not: 21, 42, 63, 70, 80

(A) 80 (B) 70 (C) 21 (D) 42

Q38. In a queue, Farah is 10th from the front and 7th from the back. How many people are in the queue altogether?

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

Q39. In a row of 42 children, Ravi is 22nd from the left end. What is Ravi's position from the right end?

(A) 21st (B) 23rd (C) 22nd (D) 20th

Q40. Ravi walks 4 m north, then 3 m east, then 3 m south. Where is Ravi now, relative to the starting point?

(A) 1 m north and 4 m east (B) 4 m north and 3 m east

(C) 1 m north and 3 m east (D) 2 m north and 3 m east

Q41. A father is 34 years older than his son. The son is 8 years old now. How old will the father be after 3 years?

(A) 46 years (B) 48 years (C) 45 years (D) 42 years

Q42. Which of these figures has exactly 5 lines of symmetry?



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

Q43. In the first row the numbers are 7, 8 and 54. In the second row they are 8, 9 and 70. In the third row they are 5, 4 and ___ . The same rule applies to every row.

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

Q44. 5 : 25 :: 3 : ___

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

Q45. If the 15th of a month is a Monday, what day of the week is the 26th of the same month?

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

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. If BOOK is coded as DQQM, how is ROAD coded?

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

Q47. Find the next number: 1, 3, 7, 13, 21, ___

(A) 32 (B) 29 (C) 31 (D) 33

Q48. If FISH is coded as GJTI, how is WIND coded?

(A) XJOE (B) EOJX (C) VHMC (D) YKPF

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

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

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

(A) VHMC (B) YKPF (C) XJOE (D) EOJX

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