STUDENT COPY · SET B

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.
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Logical Reasoning

45 questions · 1 mark each · 45 marks

Q1. A father is 24 years older than his son. The son is 13 years old now. How old will the father be after 7 years?

(A) 44 years (B) 37 years (C) 51 years (D) 45 years

Q2. In a certain code HAT is written as IBU. How is BAT written in that code?

(A) DCV (B) UBC (C) AZS (D) CBU

Q3. If the 18th of a month is a Monday, what day of the week is the 27th of the same month?

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

Q4. Which of these figures has exactly 3 lines of symmetry?



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

Q5. Read the statements and choose the conclusion that MUST be true.
All metals conduct electricity. Copper is a metal.

(A) All conductors are copper.
(B) Copper does not conduct electricity.
(C) Copper conducts electricity.
(D) Only copper is a metal.

Q6. 3 : 9 :: 10 : ___

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

Q7. Find the next number in the pattern: 2, 7, 17, 37, ___

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

Q8. In a queue, Suresh is 9th from the front and 12th from the back. How many people are in the queue altogether?

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

Q9. Which letter comes next? J, M, P, S, ___

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

Q10. Riya walks 9 m towards north, turns right and walks 8 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) 17 m, North (C) 8 m, East (D) 8 m, West

Q11. In a class, 13 students play cricket, 12 play football and 7 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 11 (B) 18 (C) 19 (D) 25

Q12. In a row of 30 children, Arjun is 18th from the left end. What is Arjun's position from the right end?

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

Q13. Which letter comes next? D, F, I, M, ___

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

Q14. All but one of these numbers are multiples of the same number. Find the one that is not: 45, 54, 63, 72, 100

(A) 100 (B) 45 (C) 63 (D) 72

Q15. If DOG is written as 4 - 15 - 7 using the positions of the letters in the alphabet, how is CAT written?

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

Q16. In the first row the numbers are 5, 3 and 14. In the second row they are 7, 9 and 62. In the third row they are 9, 7 and ___ . The same rule applies to every row.

(A) 63 (B) 64 (C) 61 (D) 62

Q17. Ravi walks 3 m north, then 10 m east, then 2 m south. Where is Ravi now, relative to the starting point?

(A) 2 m north and 10 m east (B) 3 m north and 10 m east

(C) 1 m north and 11 m east (D) 1 m north and 10 m east

Q18. A father is 23 years older than his son. The son is 9 years old now. How old will the father be after 8 years?

(A) 48 years (B) 41 years (C) 32 years (D) 40 years

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

(A) PGR (B) SHQ (C) NCL (D) RGP

Q20. If the 18th of a month is a Wednesday, what day of the week is the 31st of the same month?

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

Q21. Which of these figures has exactly 5 lines of symmetry?



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

Q22. 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) Uncle (B) Cousin (C) Nephew (D) Brother

Q23. 8 : 64 :: 6 : ___

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

Q24. In a queue, Deep is 4th from the front and 7th from the back. How many people are in the queue altogether?

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

Q25. Which letter comes next? D, H, L, P, ___

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

Q26. Riya walks 9 m towards north, turns right and walks 4 m, then turns right again and walks 9 m. How far is Riya from the starting point, and in which direction?

(A) 4 m, East (B) 4 m, West (C) 13 m, North (D) 9 m, East

Q27. In a class, 11 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) 28 (B) 24 (C) 20 (D) 25

Q28. In a row of 22 children, Tara is 14th from the left end. What is Tara’s position from the right end?

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

Q29. All but one of these numbers are multiples of the same number. Find the one that is not: 18, 27, 47, 54, 90

(A) 18 (B) 27 (C) 47 (D) 90

Q30. If RAT is written as 18 - 1 - 20 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

Q31. In the first row the numbers are 3, 6 and 20. In the second row they are 2, 9 and 20. In the third row they are 5, 3 and ___ . The same rule applies to every row.

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

Q32. A father is 25 years older than his son. The son is 9 years old now. How old will the father be after 5 years?

(A) 44 years (B) 34 years (C) 40 years (D) 39 years

Q33. In a certain code HAT is written as KDW. How is PEN written in that code?

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

Q34. If the 8th of a month is a Monday, what day of the week is the 21st of the same month?

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

Q35. 7 : 49 :: 9 : ___

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

Q36. Find the next number in the pattern: 4, 10, 22, 46, ___

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

Q37. In a queue, Suresh is 7th from the front and 6th from the back. How many people are in the queue altogether?

(A) 13 (B) 12 (C) 11 (D) 14

Q38. Which letter comes next? J, L, N, P, ___

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

Q39. Riya walks 8 m towards north, turns right and walks 6 m, then turns right again and walks 8 m. How far is Riya from the starting point, and in which direction?

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

Q40. In a class, 10 students play cricket, 10 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) 12 (B) 20 (C) 17 (D) 16

Q41. In a row of 29 children, Tara is 13th from the left end. What is Tara's position from the right end?

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

Q42. Which letter comes next? G, I, L, P, ___

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

Q43. All but one of these numbers are multiples of the same number. Find the one that is not: 18, 24, 30, 38, 54

(A) 38 (B) 54 (C) 30 (D) 18

Q44. If DOG is written as 4 - 15 - 7 using the positions of the letters in the alphabet, how is MAP written?

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

Q45. In the first row the numbers are 7, 6 and 26. In the second row they are 2, 9 and 22. In the third row they are 9, 4 and ___ . The same rule applies to every row.

(A) 26 (B) 28 (C) 25 (D) 27

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. Find the next number: 5, 7, 11, 17, 25, ___

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

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

(A) HDGF (B) PQNR (C) RNQP (D) WSVU

Q48. Find the next number: 1, 3, 7, 13, 21, ___

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

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

(A) LMJN (B) OKNM (C) LHKJ (D) NJML

Q50. If BOOK is coded as ERRN, how is ROAD coded?

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

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