STUDENT COPY · SET B

Class 5 · Mathematics 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

15 questions · 1 mark each · 15 marks

Q1. If TIN is written as 20 - 9 - 14 using the positions of the letters in the alphabet, how is BAG written?

(A) 25 - 26 - 20 (B) 2 - 1 - 7 (C) 3 - 2 - 8 (D) 7 - 1 - 2

Q2. If the 15th of a month is a Thursday, what day of the week is the 24th of the same month?

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

Q3. A father is 28 years older than his son. The son is 9 years old now. How old will the father be after 5 years?

(A) 47 years (B) 43 years (C) 42 years (D) 37 years

Q4. All but one of these numbers are multiples of the same number. Find the one that is not: 45, 54, 69, 81, 99

(A) 81 (B) 54 (C) 45 (D) 69

Q5. Sima walks 10 m north, then 6 m east, then 3 m south. Where is Sima now, relative to the starting point?

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

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

Q6. Arjun walks 3 m towards north, turns right and walks 8 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) 11 m, North (C) 8 m, West (D) 8 m, East

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

Q8. Which letter comes next? B, D, G, K, ___

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

Q9. In the first row the numbers are 3, 3 and 10. In the second row they are 8, 3 and 25. In the third row they are 4, 3 and ___ . The same rule applies to every row.

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

Q10. 8 : 64 :: 6 : ___

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

Q11. In a certain code TIN is written as WLQ. How is MAP written in that code?

(A) JXM (B) QET (C) SDP (D) PDS

Q12. Which of these figures has exactly 4 lines of symmetry?



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

Q13. In a queue, Nita is 10th from the front and 11th from the back. How many people are in the queue altogether?

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

Q14. In a row of 23 children, Ravi is 18th from the left end. What is Ravi's position from the right end?

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

Q15. Find the next number in the pattern: 4, 11, 25, 53, ___

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

Mathematical Reasoning

20 questions · 1 mark each · 20 marks

Q16. 3,443 ÷ 11 = ?

(A) 314 (B) 303 (C) 323 (D) 313

Q17. 3/4 + 6/8 = ?

(A) 1 1/4 (B) 1 5/8 (C) 1 1/2 (D) 2

Q18. 7 L 950 mL × 6 = ?

(A) 47 L 800 mL (B) 47 L 700 mL (C) 47 L 600 mL (D) 48 L 700 mL

Q19. What is the place value of 8 in the number 69,80,644?

(A) 8 (B) 8,000 (C) 8,00,000 (D) 80,000

Q20. 6.8 km = _____ m

(A) 6,800 (B) 68 (C) 680 (D) 68,000

Q21. What is the smallest number that can be divided exactly by both 4 and 10?

(A) 10 (B) 24 (C) 20 (D) 16

Q22. 6,88,427 - 55,895 = ?

(A) 6,32,522 (B) 6,32,632 (C) 6,42,532 (D) 6,32,532

Q23. At 6 a.m. the temperature was 24°C. By noon it had risen by 4°C, and by night it had fallen by 2°C. What was the temperature at night?

(A) 26°C (B) 24°C (C) 28°C (D) 27°C

Q24. The perimeter of a square is 64 cm. What is its area?

(A) 289 sq cm (B) 256 sq cm (C) 272 sq cm (D) 64 sq cm

Q25. 367 × 11 = ?

(A) 4,137 (B) 4,037 (C) 4,026 (D) 4,404

Q26. 61 - 54.53 = ?

(A) 6.37 (B) 6.47 (C) 6.57 (D) 7.47

Q27. 6 kg 50 g - 1 kg 480 g = ?

(A) 4 kg 570 g (B) 4 kg 670 g (C) 4 kg 510 g (D) 5 kg 570 g

Q28. Round 72,593 to the nearest thousand.

(A) 72,600 (B) 72,000 (C) 74,000 (D) 73,000

Q29. 1,385 ÷ 5 = ?

(A) 278 (B) 287 (C) 267 (D) 277

Q30. 1/2 + 1/4 = ?

(A) 3/4 (B) 1 (C) 1/4 (D) 1 1/4

Q31. 5 L 950 mL × 4 = ?

(A) 23 L 700 mL (B) 23 L 800 mL (C) 24 L 800 mL (D) 23 L 900 mL

Q32. What is the place value of 2 in the number 27,43,096?

(A) 2,00,00,000 (B) 20,00,000 (C) 2 (D) 2,00,000

Q33. 3.9 km = _____ m

(A) 39,000 (B) 3,900 (C) 390 (D) 39

Q34. What is the smallest number that can be divided exactly by both 12 and 8?

(A) 12 (B) 48 (C) 24 (D) 16

Q35. 1,15,846 - 75,507 = ?

(A) 40,329 (B) 40,439 (C) 40,339 (D) 41,339

Everyday Mathematics

10 questions · 1 mark each · 10 marks

Q36. One dozen pens cost ₹ 264. What is the cost of 6 pens?

(A) ₹ 110 (B) ₹ 176 (C) ₹ 132 (D) ₹ 154

Q37. A water tank holds 200 litres. If 2/4 of the water is used, how much water is left?

(A) 101 L (B) 75 L (C) 100 L (D) 125 L

Q38. A train leaves at 5:25 a.m. and reaches its destination at 10:17 a.m. on the same day. How long is the journey?

(A) 5 h 52 min (B) 4 h 52 min (C) 3 h 52 min (D) 4 h 42 min

Q39. A rope 9 m long is cut into pieces each 75 cm long. How many complete pieces are obtained?

(A) 17 (B) 12 (C) 10 (D) 14

Q40. In a class of 48 students, 7/8 are girls. How many boys are there?

(A) 6 (B) 11 (C) 1 (D) 42

Q41. A wall is 3 m long and 2 m high. How many square tiles of side 20 cm are needed to cover it completely?

(A) 162 (B) 75 (C) 300 (D) 150

Q42. An auto charges ₹ 30 for the first kilometre and ₹ 8 for every kilometre after that. What is the fare for a journey of 12 km?

(A) ₹ 110 (B) ₹ 118 (C) ₹ 126 (D) ₹ 119

Q43. A shopkeeper sells 14 kg of rice at ₹ 38 per kg. How much money does he receive?

(A) ₹ 432 (B) ₹ 632 (C) ₹ 532 (D) ₹ 546

Q44. A book has 249 pages. Ritu reads 27 pages every day for 7 days. How many pages are still left?

(A) 189 (B) 65 (C) 55 (D) 60

Q45. One dozen pens cost ₹ 264. What is the cost of 9 pens?

(A) ₹ 198 (B) ₹ 176 (C) ₹ 220 (D) ₹ 242

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. If FISH is coded as ILVK, how is GATE coded?

(A) HWDJ (B) DXQB (C) MGZK (D) JDWH

Q47. How many numbers greater than 50 and less than 75 leave a remainder of 5 when divided by 7?

(A) 4 (B) 5 (C) 3 (D) 2

Q48. The clock in the figure shows 8:00. What is the angle between the hour hand and the minute hand?



(A) 150° (B) 105° (C) 135° (D) 120°

Q49. Using each of the digits 4, 5, 9, 0 exactly once, what is the smallest 4-digit number that can be formed?

(A) 4068 (B) 4059 (C) 9540 (D) 0459

Q50. 12 taps together fill a tank in 75 minutes. How long will 10 taps of the same kind take to fill it?

(A) 75 minutes (B) 90 minutes (C) 93 minutes (D) 87 minutes

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