STUDENT COPY · SET B

Class 6 · 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. 4 : 16 :: 5 : ___

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

Q2. Which of these figures has exactly 5 lines of symmetry?



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

Q3. In a certain code BUS is written as CVT. How is SUN written in that code?

(A) UWP (B) TVO (C) OVT (D) RTM

Q4. In a queue, Farah is 10th from the front and 9th from the back. How many people are in the queue altogether?

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

Q5. Which word would come FIRST in a dictionary?

(A) maple (B) monkey (C) mango (D) minute

Q6. A father is 30 years older than his son. The son is 8 years old now. How old will the father be after 2 years?

(A) 40 years (B) 41 years (C) 42 years (D) 38 years

Q7. If RAT is written as 18 - 1 - 20 using the positions of the letters in the alphabet, how is BAG written?

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

Q8. If the 18th of a month is a Tuesday, what day of the week is the 27th of the same month?

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

Q9. 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) Uncle (C) Brother (D) Cousin

Q10. Which letter comes next? G, I, L, P, ___

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

Q11. Riya walks 6 m towards north, turns right and walks 7 m, then turns right again and walks 6 m. How far is Riya from the starting point, and in which direction?

(A) 7 m, West (B) 6 m, East (C) 13 m, North (D) 7 m, East

Q12. In a class, 21 students play cricket, 20 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) 41 (B) 34 (C) 35 (D) 27

Q13. Read the statements and choose the conclusion that MUST be true.
All roses are flowers. All flowers need water.

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

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

Q14. Find the next number in the pattern: 3, 8, 18, 38, ___

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

Q15. All but one of these numbers are multiples of the same number. Find the one that is not: 12, 26, 28, 32, 36

(A) 12 (B) 28 (C) 26 (D) 36

Mathematical Reasoning

20 questions · 1 mark each · 20 marks

Q16. 3 L 650 mL × 3 = ?

(A) 11 L 950 mL (B) 10 L 850 mL (C) 11 L 50 mL (D) 10 L 950 mL

Q17. 1/4 + 7/10 = ?

(A) 1 1/20 (B) 7/10 (C) 19/20 (D) 1 9/20

Q18. What is the smallest number that can be divided exactly by both 12 and 8?

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

Q19. 9.6 km = _____ m

(A) 96,000 (B) 96 (C) 960 (D) 9,600

Q20. At 6 a.m. the temperature was 19°C. By noon it had risen by 5°C, and by night it had fallen by 2°C. What was the temperature at night?

(A) 24°C (B) 20°C (C) 22°C (D) 23°C

Q21. 50 - 32.32 = ?

(A) 17.68 (B) 17.58 (C) 18.68 (D) 17.78

Q22. 6,140 ÷ 20 = ?

(A) 297 (B) 317 (C) 307 (D) 308

Q23. Round 55,732 to the nearest thousand.

(A) 57,000 (B) 56,000 (C) 55,700 (D) 55,000

Q24. What is the place value of 9 in the number 89,36,618?

(A) 9 (B) 90,000 (C) 9,00,000 (D) 90,00,000

Q25. 4,21,551 - 1,72,518 = ?

(A) 2,49,033 (B) 2,49,133 (C) 2,49,023 (D) 2,59,033

Q26. 257 × 20 = ?

(A) 5,140 (B) 5,240 (C) 5,397 (D) 5,120

Q27. 3 kg 400 g - 1 kg 600 g = ?

(A) 2 kg 800 g (B) 1 kg 800 g (C) 1 kg 900 g (D) 1 kg 740 g

Q28. 7 L 900 mL × 5 = ?

(A) 39 L 400 mL (B) 39 L 500 mL (C) 40 L 500 mL (D) 39 L 600 mL

Q29. 1/5 + 2/6 = ?

(A) 8/15 (B) 1 1/30 (C) 7/10 (D) 1/3

Q30. What is the smallest number that can be divided exactly by both 9 and 10?

(A) 10 (B) 80 (C) 90 (D) 180

Q31. 5.2 km = _____ m

(A) 52,000 (B) 5,200 (C) 52 (D) 520

Q32. At 6 a.m. the temperature was 16°C. By noon it had risen by 6°C, and by night it had fallen by 2°C. What was the temperature at night?

(A) 21°C (B) 22°C (C) 18°C (D) 20°C

Q33. 30 - 10.08 = ?

(A) 19.82 (B) 20.02 (C) 19.92 (D) 20.92

Q34. 3,330 ÷ 18 = ?

(A) 185 (B) 195 (C) 175 (D) 186

Q35. Round 26,328 to the nearest thousand.

(A) 26,000 (B) 26,300 (C) 27,000 (D) 25,000

Everyday Mathematics

10 questions · 1 mark each · 10 marks

Q36. One dozen pens cost ₹ 240. What is the cost of 5 pens?

(A) ₹ 80 (B) ₹ 100 (C) ₹ 140 (D) ₹ 120

Q37. In a class of 45 students, 3/5 are girls. How many boys are there?

(A) 18 (B) 13 (C) 27 (D) 23

Q38. A water tank holds 200 litres. If 1/4 of the water is used, how much water is left?

(A) 50 L (B) 175 L (C) 125 L (D) 150 L

Q39. A wall is 5 m long and 5 m high. How many square tiles of side 20 cm are needed to cover it completely?

(A) 625 (B) 312 (C) 1250 (D) 637

Q40. A train leaves at 6:10 a.m. and reaches its destination at 9:11 a.m. on the same day. How long is the journey?

(A) 3 h 11 min (B) 2 h 1 min (C) 4 h 1 min (D) 3 h 1 min

Q41. A book has 256 pages. Ritu reads 28 pages every day for 7 days. How many pages are still left?

(A) 196 (B) 60 (C) 55 (D) 65

Q42. A rope 11.4 m long is cut into pieces each 60 cm long. How many complete pieces are obtained?

(A) 19 (B) 21 (C) 24 (D) 17

Q43. An auto charges ₹ 25 for the first kilometre and ₹ 8 for every kilometre after that. What is the fare for a journey of 8 km?

(A) ₹ 89 (B) ₹ 82 (C) ₹ 81 (D) ₹ 73

Q44. A shopkeeper sells 20 kg of rice at ₹ 64 per kg. How much money does he receive?

(A) ₹ 1,280 (B) ₹ 1,180 (C) ₹ 1,300 (D) ₹ 1,380

Q45. One dozen pens cost ₹ 252. What is the cost of 4 pens?

(A) ₹ 105 (B) ₹ 63 (C) ₹ 84 (D) ₹ 126

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. The clock in the figure shows 10:00. What is the angle between the hour hand and the minute hand?



(A) 60° (B) 75° (C) 45° (D) 90°

Q47. Using each of the digits 9, 8, 0, 2 exactly once, what is the smallest 4-digit number that can be formed?

(A) 2098 (B) 9820 (C) 0289 (D) 2089

Q48. If FISH is coded as JMWL, how is MILK coded?

(A) OPMQ (B) IEHG (C) UQTS (D) QMPO

Q49. 10 taps together fill a tank in 15 minutes. How long will 2 taps of the same kind take to fill it?

(A) 78 minutes (B) 75 minutes (C) 15 minutes (D) 72 minutes

Q50. How many numbers greater than 50 and less than 70 leave a remainder of 4 when divided by 7?

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

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