

Class 4 · Mathematics Olympiad

Total questions 35	Total marks 40	Time 60 minutes	Negative marking None
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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. The answer key with full solutions is at the end of this paper.

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.

Logical Reasoning

10 questions · 1 mark each · 10 marks

Q1. Which letter comes next? H, K, N, Q, ____

- (A) S (B) T (C) U (D) W

Q2. Count forward in 10s: 20, 30, 40, 50, ____

- (A) 70 (B) 61 (C) 59 (D) 60

Q3. In a certain code JAR is written as KBS. How is PEN written in that code?

- (A) OFQ (B) QFO (C) RGP (D) ODM

Q4. Which number comes just before 1365?

- (A) 1363 (B) 1364 (C) 1365 (D) 1367

Q5. In a row of 22 children, Sana is 17th from the left end. What is Sana's position from the right end?

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

Q6. $6 : 36 :: 9 : \underline{\hspace{1cm}}$

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

Q7. Find the next number in the pattern: 5, 7, 9, 11, ____

- (A) 14 (B) 11 (C) 15 (D) 13

Q8. Which of these numbers is the greatest?

- (A) 1757 (B) 3096 (C) 2014 (D) 3394

Q9. Count backward in 2s: 18, 16, 14, 12, ____

- (A) 10 (B) 11 (C) 8 (D) 12

Q10. In the first row the numbers are 3, 6 and 18. In the second row they are 2, 3 and 6. In the third row they are 6, 2 and ____ . The same rule applies to every row.

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

Mathematical Reasoning

10 questions · 1 mark each · 10 marks

Q11. $5 \times 10 = ?$

- (A) 55 (B) 40 (C) 50 (D) 51

Q12. How many sides does a hexagon have?

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

Q13. At 6 a.m. the temperature was 12°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) 17°C (B) 18°C (C) 14°C (D) 16°C

Q14. The perimeter of a square is 24 cm. What is its area?

- (A) 42 sq cm (B) 49 sq cm (C) 36 sq cm (D) 24 sq cm

Q15. $504 \div 7 = ?$

- (A) 73 (B) 72 (C) 62 (D) 82

Q16. In the number 99, what is the digit in the tens place?

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

Q17. What is the place value of 6 in the number 8,82,622?

- (A) 6,000 (B) 6 (C) 600 (D) 60

Q18. Round 46,661 to the nearest thousand.

- (A) 48,000 (B) 46,700 (C) 46,000 (D) 47,000

Q19. 8.6 km = _____ m

- (A) 86,000 (B) 860 (C) 8,600 (D) 86

Q20. 1 L 450 mL $\times 6 = ?$

- (A) 9 L 700 mL (B) 8 L 800 mL (C) 8 L 700 mL (D) 8 L 600 mL

Everyday Mathematics

10 questions · 1 mark each · 10 marks

Q21. It is 2 o'clock now. What time will it be 2 hour(s) later?

- (A) 2 o'clock (B) 5 o'clock (C) 6 o'clock (D) 4 o'clock

Q22. A water tank holds 320 litres. If $\frac{5}{8}$ of the water is used, how much water is left?

- (A) 145 L (B) 120 L (C) 95 L (D) 200 L

Q23. A shopkeeper sells 6 kg of rice at ₹ 23 per kg. How much money does he receive?

- (A) ₹ 38 (B) ₹ 238 (C) ₹ 144 (D) ₹ 138

Q24. An auto charges ₹ 25 for the first kilometre and ₹ 10 for every kilometre after that. What is the fare for a journey of 12 km?

- (A) ₹ 136 (B) ₹ 125 (C) ₹ 145 (D) ₹ 135

Q25. A pencil costs ₹ 57 and an eraser costs ₹ 34. What is the total cost?

- (A) ₹ 91 (B) ₹ 23 (C) ₹ 96 (D) ₹ 86

Q26. One dozen pens cost ₹ 288. What is the cost of 9 pens?

- (A) ₹ 192 (B) ₹ 264 (C) ₹ 216 (D) ₹ 240

Q27. A train leaves at 9:20 a.m. and reaches its destination at 2:40 p.m. on the same day. How long is the journey?

- (A) 6 h 20 min (B) 5 h 30 min (C) 4 h 20 min (D) 5 h 20 min

Q28. In a class of 32 students, $\frac{7}{8}$ are girls. How many boys are there?

- (A) 28 (B) 4 (C) 9 (D) -1

Q29. 54 balloons are shared equally among 6 children. How many does each child get?

- (A) 8 (B) 6 (C) 10 (D) 9

Q30. A rope 10.5 m long is cut into pieces each 75 cm long. How many complete pieces are obtained?

- (A) 14 (B) 12 (C) 19 (D) 16

Achievers Section

5 questions · 2 marks each · 10 marks

Q31. 12 taps together fill a tank in 5 minutes. How long will 3 taps of the same kind take to fill it?

- (A) 23 minutes (B) 5 minutes (C) 20 minutes (D) 17 minutes

Q32. There are 8 boxes with 11 oranges in each box. If 74 oranges are eaten, how many are left?

- (A) 11 (B) 88 (C) 17 (D) 14

Q33. Which pair is correctly matched?

- (A) Bhopal — Bihar (B) Kolkata — West Bengal
(C) Jaipur — Gujarat (D) Chennai — Kerala

Q34. $253 + \underline{\quad} = 341$

- (A) 98 (B) 341 (C) 88 (D) 78

Q35. You see a bird with a long, sharp, pointed beak catching fish. What does the beak shape tell you?

- (A) It is used for digging soil (B) It is used for cracking seeds
(C) It is suited to spearing and gripping fish (D) It is used for sipping nectar

Answer Key

1	2	3	4	5	6	7	8	9	10
B	D	B	B	A	A	D	D	A	B
11	12	13	14	15	16	17	18	19	20
C	A	D	C	B	B	C	D	C	C
21	22	23	24	25	26	27	28	29	30
D	B	D	D	A	C	D	B	D	A
31	32	33	34	35					
C	D	B	C	C					

Solutions

Q1. (B) Each letter moves 3 place(s) forward in the alphabet, so after Q comes T.

Q2. (D) Adding 10 to 50 gives 60.

Q3. (B) Each letter moves 1 place(s) forward in the alphabet, so PEN becomes QFO.

Q4. (B) The number just before 1365 is 1364.

Q5. (A) Position from the right = total - position from the left + 1 = $22 - 17 + 1 = 6$ th.

Q6. (A) The second number is the first multiplied by itself: $6 \times 6 = 36$, so $9 \times 9 = 81$.

- Q7. (D) Each number is 2 more than the one before it, so the next is $11 + 2 = 13$.
- Q8. (D) Comparing 1757, 2014, 3096, 3394, the greatest is 3394.
- Q9. (A) Subtracting 2 from 12 gives 10.
- Q10. (B) The rule is: multiply the two numbers. Check: 3, 6 gives 18 and 2, 3 gives 6; so 6, 2 gives 12.
- Q11. (C) 5 multiplied by 10 is 50.
- Q12. (A) A hexagon has 6 sides.
- Q13. (D) $12 + 6 = 18$, then $18 - 2 = 16^{\circ}\text{C}$.
- Q14. (C) Side = $24 / 4 = 6$ cm, so area = $6 \times 6 = 36$ sq cm.
- Q15. (B) $7 \times 72 = 504$, so the quotient is 72.
- Q16. (B) 99 is 9 ten(s) and 9 one(s), so the tens digit is 9.
- Q17. (C) The digit 6 stands in the 100 place, so its place value is 600.
- Q18. (D) The hundreds digit is 6, so we round up to 47,000.
- Q19. (C) 1 km = 1,000 m, so $8.6 \text{ km} = 8.6 \times 1,000 = 8,600$ m.
- Q20. (C) 1 L 450 mL = 1,450 mL. $1,450 \times 6 = 8,700$ mL = 8 L 700 mL.
- Q21. (D) $2 + 2 = 4$, so the time will be 4 o'clock.
- Q22. (B) $5/8$ of 320 = 200 L is used, so $320 - 200 = 120$ L is left.
- Q23. (D) $6 \times 23 = ₹ 138$.
- Q24. (D) After the first kilometre there are 11 more: $25 + 11 \times 10 = ₹ 135$.
- Q25. (A) $57 + 34 = ₹ 91$.
- Q26. (C) One pen costs $288 / 12 = ₹ 24$, so 9 pens cost $9 \times 24 = ₹ 216$.
- Q27. (D) From 9:20 a.m. to 2:40 p.m. is 5 h 20 min.
- Q28. (B) $7/8$ of 32 = 28 girls, so the number of boys is $32 - 28 = 4$.
- Q29. (D) 54 divided by 6 is 9.
- Q30. (A) $10.5 \text{ m} = 1,050$ cm and $1,050 / 75 = 14$ pieces.
- Q31. (C) One tap alone would take $12 \times 5 = 60$ minutes. With 3 taps the time is $60 / 3 = 20$ minutes.
- Q32. (D) $8 \times 11 = 88$ oranges in all, and $88 - 74 = 14$ are left.
- Q33. (B) Kolkata is the capital of West Bengal. Jaipur is in Rajasthan, Chennai in Tamil Nadu and Bhopal in Madhya Pradesh. The answer is Kolkata — West Bengal.
- Q34. (C) The missing number is $341 - 253 = 88$.
- Q35. (C) Beak shape matches diet: a long pointed beak suits catching fish. The answer is It is suited to spearing and gripping fish.

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