

Class 3 · 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 of these numbers is the greatest?

- (A) 1145 (B) 1274 (C) 1939 (D) 1496

Q2. $7 : 49 :: 6 : \underline{\hspace{1cm}}$

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

Q3. Which number comes just before 371?

- (A) 371 (B) 369 (C) 370 (D) 373

Q4. In the first row the numbers are 2, 2 and 4. In the second row they are 3, 2 and 6. In the third row they are 6, 2 and ____ . The same rule applies to every row.

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

Q5. Which letter comes next? A, C, F, J, ____

- (A) N (B) P (C) M (D) O

Q6. Riya walks 9 m towards north, turns right and walks 2 m, then turns right again and walks 9 m. How far is Riya from the starting point, and in which direction?

- (A) 11 m, North (B) 2 m, West (C) 9 m, East (D) 2 m, East

Q7. Count backward in 3s: 27, 24, 21, 18, ____

- (A) 16 (B) 12 (C) 18 (D) 15

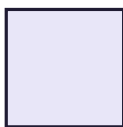
Q8. If RAT is written as 18 - 1 - 20 using the positions of the letters in the alphabet, how is MAP written?

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

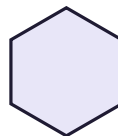
Q9. Which of these figures has exactly 2 lines of symmetry?



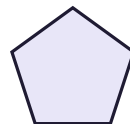
(A)



(B)



(C)



(D)

Q10. Which letter comes next? C, E, G, I, ____

- (A) M (B) J (C) L (D) K

Mathematical Reasoning

10 questions · 1 mark each · 10 marks

Q11. At 6 a.m. the temperature was 13°C . By noon it had risen by 6°C , and by night it had fallen by 5°C . What was the temperature at night?

- (A) 19°C (B) 14°C (C) 12°C (D) 16°C

Q12. $1,09,712 - 27,795 = ?$

- (A) 82,917 (B) 81,907 (C) 82,017 (D) 81,917

Q13. Find the next number: 2, 6, 12, 20, 30, ____

- (A) 40 (B) 44 (C) 48 (D) 42

Q14. $502 + 691 = ?$

- (A) 1,183 (B) 1,193 (C) 1,203 (D) 1,194

Q15. $1,750 \div 10 = ?$

- (A) 185 (B) 176 (C) 165 (D) 175

Q16. What is the place value of 8 in the number 4,20,842?

- (A) 8,000 (B) 800 (C) 8 (D) 80

Q17. $213 \times 9 = ?$

- (A) 2,017 (B) 1,917 (C) 1,908 (D) 2,130

Q18. In the number 31, what is the digit in the ones place?

- (A) 0 (B) 1 (C) 3 (D) 2

Q19. Round 19,782 to the nearest thousand.

- (A) 21,000 (B) 19,000 (C) 20,000 (D) 19,800

Q20. How many sides does a pentagon have?

- (A) 5 (B) 7 (C) 4 (D) 6

Everyday Mathematics

10 questions · 1 mark each · 10 marks

Q21. It is 10 o'clock now. What time will it be 4 hour(s) later?

- (A) 3 o'clock (B) 10 o'clock (C) 2 o'clock (D) 4 o'clock

Q22. A train leaves at 7:15 a.m. and reaches its destination at 1:36 p.m. on the same day. How long is the journey?

- (A) 6 h 21 min (B) 6 h 31 min (C) 5 h 21 min (D) 7 h 21 min

Q23. A rope 16 m long is cut into pieces each 80 cm long. How many complete pieces are obtained?

- (A) 18 (B) 25 (C) 20 (D) 22

Q24. Rohit had 42 marbles and gave away 7. How many marbles are left?

- (A) 33 (B) 42 (C) 35 (D) 37

Q25. A shopkeeper sells 14 kg of rice at ₹ 49 per kg. How much money does he receive?

- (A) ₹ 786 (B) ₹ 686 (C) ₹ 586 (D) ₹ 700

Q26. One dozen pens cost ₹ 204. What is the cost of 9 pens?

- (A) ₹ 153 (B) ₹ 136 (C) ₹ 170 (D) ₹ 187

Q27. A pencil costs ₹ 15 and an eraser costs ₹ 42. What is the total cost?

- (A) ₹ 62 (B) ₹ 27 (C) ₹ 52 (D) ₹ 57

Q28. A book has 117 pages. Ritu reads 15 pages every day for 4 days. How many pages are still left?

- (A) 62 (B) 57 (C) 60 (D) 52

Q29. 77 toffees are shared equally among 7 children. How many does each child get?

- (A) 10 (B) 7 (C) 11 (D) 12

Q30. It is 3 o'clock now. What time will it be 1 hour(s) later?

- (A) 4 o'clock (B) 6 o'clock (C) 5 o'clock (D) 3 o'clock

Achievers Section

5 questions · 2 marks each · 10 marks

Q31. A country's flag has saffron on top, white in the middle with a blue wheel, and green at the bottom. Which country is it?

- (A) Niger (B) India (C) Ireland (D) Italy

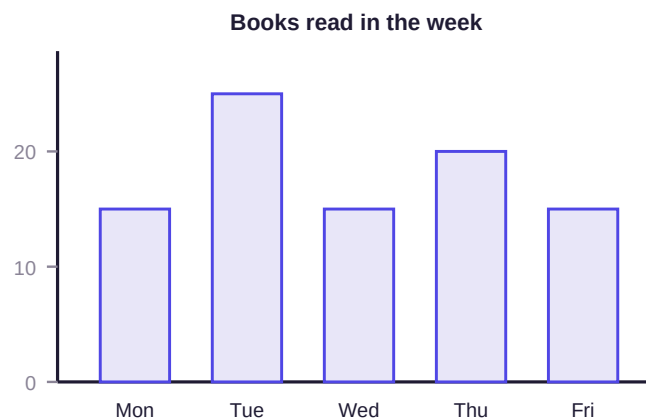
Q32. There are 7 boxes with 4 samosas in each box. If 3 samosas are eaten, how many are left?

- (A) 28 (B) 22 (C) 26 (D) 25

Q33. Using each of the digits 0, 5, 7, 6 exactly once, what is the smallest 4-digit number that can be formed?

- (A) 0567 (B) 5067 (C) 5076 (D) 7650

Q34. The bar graph shows the number of books read by a class on each day of one week. How many books were read in the whole week?



- (A) 95 (B) 90 (C) 85 (D) 100

Q35. $50 + \underline{\quad} = 156$

- (A) 116 (B) 106 (C) 96 (D) 156

Answer Key

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

Solutions

- Q1. (C) Comparing 1145, 1274, 1496, 1939, the greatest is 1939.
- Q2. (C) The second number is the first multiplied by itself: $7 \times 7 = 49$, so $6 \times 6 = 36$.
- Q3. (C) The number just before 371 is 370.
- Q4. (C) The rule is: multiply the two numbers. Check: 2, 2 gives 4 and 3, 2 gives 6; so 6, 2 gives 12.
- Q5. (D) The gaps grow by one each time (+2, +3, +4, +5), so after J the next letter is O.
- Q6. (D) The two 9 m walks (north, then south) cancel out, leaving only the 2 m walked towards the east. So the answer is 2 m, East.
- Q7. (D) Subtracting 3 from 18 gives 15.
- Q8. (C) M is letter 13 and A is letter 1 and P is letter 16, so $MAP = 13 - 1 - 16$.
- Q9. (A) Counting lines of symmetry: rectangle has 2, square has 4, regular hexagon has 6, regular pentagon has 5. The answer is figure (A).
- Q10. (D) Each letter moves 2 place(s) forward in the alphabet, so after I comes K.
- Q11. (B) $13 + 6 = 19$, then $19 - 5 = 14^\circ\text{C}$.
- Q12. (D) $1,09,712 - 27,795 = 81,917$.
- Q13. (D) The gaps are 4, 6, 8, 10, so the next gap is 12 and $30 + 12 = 42$.
- Q14. (B) $502 + 691 = 1,193$.
- Q15. (D) $10 \times 175 = 1,750$, so the quotient is 175.
- Q16. (B) The digit 8 stands in the 100 place, so its place value is 800.
- Q17. (B) $213 \times 9 = 1,917$.
- Q18. (B) 31 is 3 ten(s) and 1 one(s), so the ones digit is 1.
- Q19. (C) The hundreds digit is 7, so we round up to 20,000.
- Q20. (A) A pentagon has 5 sides.
- Q21. (C) $10 + 4 = 14$, so the time will be 2 o'clock.
- Q22. (A) From 7:15 a.m. to 1:36 p.m. is 6 h 21 min.
- Q23. (C) $16 \text{ m} = 1,600 \text{ cm}$ and $1,600 / 80 = 20$ pieces.
- Q24. (C) $42 - 7 = 35$.
- Q25. (B) $14 \times 49 = ₹ 686$.
- Q26. (A) One pen costs $204 / 12 = ₹ 17$, so 9 pens cost $9 \times 17 = ₹ 153$.
- Q27. (D) $15 + 42 = ₹ 57$.
- Q28. (B) She reads $15 \times 4 = 60$ pages, so $117 - 60 = 57$ pages are left.
- Q29. (C) 77 divided by 7 is 11.
- Q30. (A) $3 + 1 = 4$, so the time will be 4 o'clock.
- Q31. (B) That describes the Indian tricolour with the Ashoka Chakra in the white band.

Q32. (D) $7 \times 4 = 28$ samosas in all, and $28 - 3 = 25$ are left.

Q33. (B) A 4-digit number cannot begin with 0, so the smallest possible first digit is 5. The remaining digits are then placed in increasing order: 5067.

Q34. (B) $15 + 25 + 15 + 20 + 15 = 90$ books.

Q35. (B) The missing number is $156 - 50 = 106$.

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