

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

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

Q2. Which number comes just before 616?

- (A) 618 (B) 614 (C) 615 (D) 616

Q3. $6 : 36 :: 8 : \underline{\hspace{1cm}}$

- (A) 16 (B) 49 (C) 64 (D) 81

Q4. Which of these numbers is the smallest?

- (A) 1042 (B) 870 (C) 1582 (D) 908

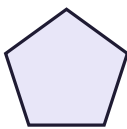
Q5. Find the next number in the pattern: 5, 8, 11, 14, ____

- (A) 18 (B) 20 (C) 14 (D) 17

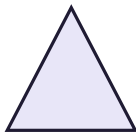
Q6. Riya walks 7 m towards north, turns right and walks 8 m, then turns right again and walks 7 m. How far is Riya from the starting point, and in which direction?

- (A) 15 m, North (B) 8 m, East (C) 8 m, West (D) 7 m, East

Q7. Which of these figures has exactly 4 lines of symmetry?



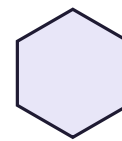
(A)



(B)



(C)



(D)

Q8. In the first row the numbers are 2, 5 and 9. In the second row they are 4, 2 and 8. In the third row they are 4, 4 and ____ . The same rule applies to every row.

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

Q9. Count backward in 5s: 40, 35, 30, 25, ____

- (A) 21 (B) 25 (C) 15 (D) 20

Q10. Find the odd one out: 8, 26, 32, 36, 44

- (A) 44 (B) 32 (C) 26 (D) 36

Mathematical Reasoning

10 questions · 1 mark each · 10 marks

Q11. Round 1,824 to the nearest thousand.

- (A) 2,000 (B) 1,000 (C) 1,800 (D) 3,000

Q12. Find the next number: 2, 6, 12, 20, 30, ____

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

Q13. $9 \times 8 = ?$

- (A) 72 (B) 64 (C) 73 (D) 81

Q14. $1,036 \div 7 = ?$

- (A) 148 (B) 149 (C) 138 (D) 158

Q15. $155 \times 14 = ?$

- (A) 2,170 (B) 2,270 (C) 2,156 (D) 2,325

Q16. In the number 88, what is the digit in the ones place?

- (A) 8 (B) 9 (C) 7 (D) 10

Q17. $856 + 99 = ?$

- (A) 956 (B) 945 (C) 965 (D) 955

Q18. At 6 a.m. the temperature was 20°C . By noon it had risen by 10°C , and by night it had fallen by 6°C . What was the temperature at night?

- (A) 22°C (B) 26°C (C) 30°C (D) 24°C

Q19. How many sides does a hexagon have?

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

Q20. $1,14,483 - 97,260 = ?$

- (A) 18,223 (B) 17,223 (C) 17,323 (D) 17,213

Everyday Mathematics

10 questions · 1 mark each · 10 marks

Q21. 14 toffees are shared equally among 2 children. How many does each child get?

- (A) 8 (B) 7 (C) 6 (D) 2

Q22. A train leaves at 6:20 a.m. and reaches its destination at 2:13 p.m. on the same day. How long is the journey?

- (A) 6 h 53 min (B) 7 h 43 min (C) 8 h 53 min (D) 7 h 53 min

Q23. One dozen pens cost ₹ 156. What is the cost of 4 pens?

- (A) ₹ 39 (B) ₹ 65 (C) ₹ 78 (D) ₹ 52

Q24. A pencil costs ₹ 65 and an eraser costs ₹ 49. What is the total cost?

- (A) ₹ 109 (B) ₹ 114 (C) ₹ 119 (D) ₹ 16

Q25. A rope 5.5 m long is cut into pieces each 50 cm long. How many complete pieces are obtained?

- (A) 11 (B) 16 (C) 9 (D) 13

- Q26. Ayesha had 84 marbles and gave away 60. How many marbles are left?
 (A) 24 (B) 22 (C) 84 (D) 26
- Q27. A book has 309 pages. Ritu reads 32 pages every day for 8 days. How many pages are still left?
 (A) 53 (B) 256 (C) 58 (D) 48
- Q28. It is 4 o'clock now. What time will it be 2 hour(s) later?
 (A) 8 o'clock (B) 4 o'clock (C) 6 o'clock (D) 7 o'clock
- Q29. A shopkeeper sells 9 kg of rice at ₹ 52 per kg. How much money does he receive?
 (A) ₹ 468 (B) ₹ 477 (C) ₹ 568 (D) ₹ 368
- Q30. 9 crayons are shared equally among 3 children. How many does each child get?
 (A) 3 (B) 2 (C) 5 (D) 4

Achievers Section

5 questions · 2 marks each · 10 marks

- Q31. $132 + \underline{\quad} = 159$
 (A) 159 (B) 17 (C) 27 (D) 37
- Q32. Choose the correct form: "The ____ playing in the park." (use the plural of 'woman')
 (A) womans are (B) woman are (C) women are (D) women is
- Q33. 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) Ireland (B) Niger (C) Italy (D) India
- Q34. There are 9 boxes with 11 samosas in each box. If 90 samosas are eaten, how many are left?
 (A) 99 (B) 9 (C) 6 (D) 12
- Q35. Using each of the digits 3, 2, 7, 0 exactly once, what is the smallest 4-digit number that can be formed?
 (A) 2046 (B) 2037 (C) 0237 (D) 7320

Answer Key

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

Solutions

- Q1. (B) C is letter 3 and A is letter 1 and T is letter 20, so CAT = 3 - 1 - 20.

- Q2. (C) The number just before 616 is 615.
- Q3. (C) The second number is the first multiplied by itself: $6 \times 6 = 36$, so $8 \times 8 = 64$.
- Q4. (B) Comparing 870, 908, 1042, 1582, the smallest is 870.
- Q5. (D) Each number is 3 more than the one before it, so the next is $14 + 3 = 17$.
- Q6. (B) The two 7 m walks (north, then south) cancel out, leaving only the 8 m walked towards the east. So the answer is 8 m, East.
- Q7. (C) Counting lines of symmetry: regular pentagon has 5, equilateral triangle has 3, square has 4, regular hexagon has 6. The answer is figure (C).
- Q8. (A) The rule is: add the two numbers, then add 2. Check: 2, 5 gives 9 and 4, 2 gives 8; so 4, 4 gives 10.
- Q9. (D) Subtracting 5 from 25 gives 20.
- Q10. (C) Every other number is a multiple of 4. 26 is not.
- Q11. (A) The hundreds digit is 8, so we round up to 2,000.
- Q12. (A) The gaps are 4, 6, 8, 10, so the next gap is 12 and $30 + 12 = 42$.
- Q13. (A) 9 multiplied by 8 is 72.
- Q14. (A) $7 \times 148 = 1,036$, so the quotient is 148.
- Q15. (A) $155 \times 14 = 155 \times 10 + 155 \times 4 = 1,550 + 620 = 2,170$.
- Q16. (A) 88 is 8 ten(s) and 8 one(s), so the ones digit is 8.
- Q17. (D) $856 + 99 = 955$.
- Q18. (D) $20 + 10 = 30$, then $30 - 6 = 24^\circ\text{C}$.
- Q19. (C) A hexagon has 6 sides.
- Q20. (B) $1,14,483 - 97,260 = 17,223$.
- Q21. (B) 14 divided by 2 is 7.
- Q22. (D) From 6:20 a.m. to 2:13 p.m. is 7 h 53 min.
- Q23. (D) One pen costs $156 / 12 = ₹ 13$, so 4 pens cost $4 \times 13 = ₹ 52$.
- Q24. (B) $65 + 49 = ₹ 114$.
- Q25. (A) $5.5 \text{ m} = 550 \text{ cm}$ and $550 / 50 = 11$ pieces.
- Q26. (A) $84 - 60 = 24$.
- Q27. (A) She reads $32 \times 8 = 256$ pages, so $309 - 256 = 53$ pages are left.
- Q28. (C) $4 + 2 = 6$, so the time will be 6 o'clock.
- Q29. (A) $9 \times 52 = ₹ 468$.
- Q30. (A) 9 divided by 3 is 3.
- Q31. (C) The missing number is $159 - 132 = 27$.
- Q32. (C) The plural of 'woman' is 'women', and a plural subject takes 'are', so the answer is "women are".
- Q33. (D) That describes the Indian tricolour with the Ashoka Chakra in the white band.
- Q34. (B) $9 \times 11 = 99$ samosas in all, and $99 - 90 = 9$ are left.
- Q35. (B) A 4-digit number cannot begin with 0, so the smallest possible first digit is 2. The remaining digits are then placed in increasing order: 2037.

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