

Class 3 · Reasoning 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

30 questions · 1 mark each · 30 marks

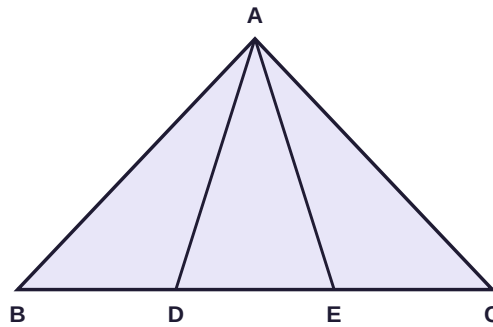
Q1. Which number comes just before 1077?

- (A) 1076 (B) 1075 (C) 1079 (D) 1077

Q2. Which of these numbers is the greatest?

- (A) 1453 (B) 515 (C) 978 (D) 2017

Q3. How many triangles are there in the given figure?



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

Q4. Which letter comes next? D, F, I, M, ____

- (A) Q (B) S (C) R (D) P

Q5. Find the odd one out: 27, 45, 68, 72, 90

- (A) 45 (B) 68 (C) 27 (D) 72

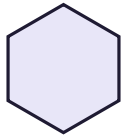
Q6. If TIN is written as 20 - 9 - 14 using the positions of the letters in the alphabet, how is BUS written?

- (A) 19 - 21 - 2 (B) 2 - 21 - 19 (C) 3 - 22 - 20 (D) 25 - 6 - 8

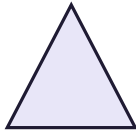
Q7. If today is Friday, what day is two days after today?

- (A) Monday (B) Wednesday (C) Tuesday (D) Sunday

Q8. Which of these figures has exactly 3 lines of symmetry?



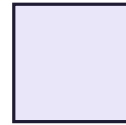
(A)



(B)



(C)



(D)

Q9. Which letter comes next? J, L, N, P, ____

(A) S

(B) Q

(C) R

(D) T

Q10. Count backward in 2s: 26, 24, 22, 20, ____

(A) 19

(B) 16

(C) 20

(D) 18

Q11. In a row of 22 children, Imran is 6th from the left end. What is Imran's position from the right end?

(A) 18th

(B) 19th

(C) 17th

(D) 16th

Q12. Find the next number in the pattern: 4, 6, 8, 10, ____

(A) 10

(B) 14

(C) 13

(D) 12

Q13. Meera walks 4 m towards north, turns right and walks 6 m, then turns right again and walks 4 m. How far is Meera from the starting point, and in which direction?

(A) 4 m, East

(B) 10 m, North

(C) 6 m, West

(D) 6 m, East

Q14. Look at the pattern: square, triangle, square, triangle, square, ____ . Which shape comes next?

(A) oval

(B) triangle

(C) square

(D) hexagon

Q15. Count forward in 10s: 30, 40, 50, 60, ____

(A) 71

(B) 80

(C) 70

(D) 69

Q16. $3 : 9 :: 4 : \underline{\hspace{1cm}}$

(A) 25

(B) 9

(C) 16

(D) 8

Q17. In the first row the numbers are 4, 5 and 20. In the second row they are 6, 3 and 18. In the third row they are 3, 2 and ____ . The same rule applies to every row.

(A) 6

(B) 7

(C) 8

(D) 5

Q18. Which number comes just after 1127?

(A) 1130

(B) 1129

(C) 1128

(D) 1127

Q19. Which letter comes next? E, G, J, N, ____

(A) R

(B) S

(C) Q

(D) T

Q20. Find the odd one out: 14, 40, 42, 49, 63

(A) 42

(B) 49

(C) 14

(D) 40

Q21. If DOG is written as 4 - 15 - 7 using the positions of the letters in the alphabet, how is CAT written?

(A) 4 - 2 - 21

(B) 24 - 26 - 7

(C) 20 - 1 - 3

(D) 3 - 1 - 20

Q22. If today is Monday, what day is two days after today?

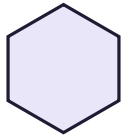
(A) Friday

(B) Wednesday

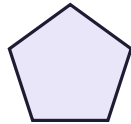
(C) Saturday

(D) Thursday

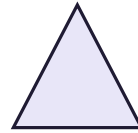
Q23. Which of these figures has exactly 5 lines of symmetry?



(A)



(B)



(C)



(D)

Q24. Which letter comes next? A, D, G, J, ____

(A) M

(B) N

(C) P

(D) L

Q25. In a row of 25 children, Tara is 16th from the left end. What is Tara's position from the right end?

(A) 10th

(B) 12th

(C) 11th

(D) 9th

Q26. Find the next number in the pattern: 15, 21, 27, 33, ____

(A) 33

(B) 45

(C) 39

(D) 40

Q27. Kabir walks 6 m towards north, turns right and walks 7 m, then turns right again and walks 6 m. How far is Kabir from the starting point, and in which direction?

(A) 6 m, East

(B) 13 m, North

(C) 7 m, East

(D) 7 m, West

Q28. Look at the pattern: circle, square, circle, square, circle, ____ . Which shape comes next?

(A) hexagon

(B) oval

(C) square

(D) circle

Q29. Count forward in 5s: 30, 35, 40, 45, ____

(A) 49

(B) 51

(C) 50

(D) 55

Q30. $3 : 9 :: 5 : \underline{\hspace{1cm}}$

(A) 25

(B) 16

(C) 36

(D) 10

Achievers Section

5 questions · 2 marks each · 10 marks

Q31. Using each of the digits 0, 2, 3, 1 exactly once, what is the smallest 4-digit number that can be formed?

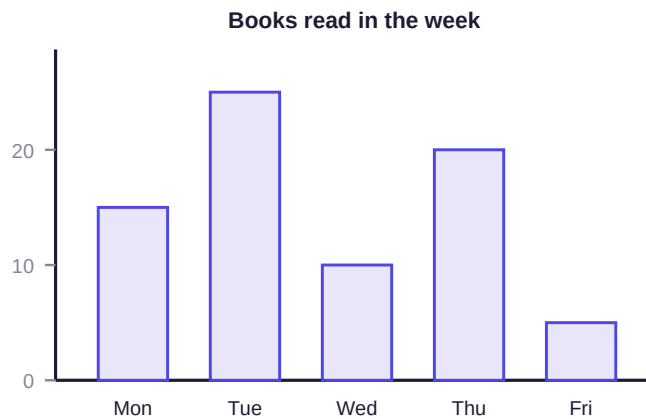
(A) 3210

(B) 1032

(C) 0123

(D) 1023

Q32. 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) 80 (B) 70 (C) 75 (D) 85

Q33. $59 + \underline{\quad} = 183$

- (A) 183 (B) 114 (C) 124 (D) 134

Q34. There are 3 boxes with 11 samosas in each box. If 15 samosas are eaten, how many are left?

- (A) 18 (B) 21 (C) 15 (D) 33

Q35. 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) Italy (C) India (D) Niger

Answer Key

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

Solutions

Q1. (A) The number just before 1077 is 1076.

Q2. (D) Comparing 515, 978, 1453, 2017, the greatest is 2017.

Q3. (D) Every triangle has apex A and two of the 4 base points as its other corners. Choosing 2 from 4 gives 6 triangles.

Q4. (C) The gaps grow by one each time (+2, +3, +4, +5), so after M the next letter is R.

Q5. (B) Every other number is a multiple of 9. 68 is not.

Q6. (B) B is letter 2 and U is letter 21 and S is letter 19, so $BUS = 2 - 21 - 19$.

- Q7. (D) Counting 2 day(s) on from Friday gives Sunday.
- Q8. (B) Counting lines of symmetry: regular hexagon has 6, equilateral triangle has 3, rectangle has 2, square has 4. The answer is figure (B).
- Q9. (C) Each letter moves 2 place(s) forward in the alphabet, so after P comes R.
- Q10. (D) Subtracting 2 from 20 gives 18.
- Q11. (C) Position from the right = total - position from the left + 1 = $22 - 6 + 1 = 17$ th.
- Q12. (D) Each number is 2 more than the one before it, so the next is $10 + 2 = 12$.
- Q13. (D) The two 4 m walks (north, then south) cancel out, leaving only the 6 m walked towards the east. So the answer is 6 m, East.
- Q14. (B) The pattern repeats square then triangle over and over, so after square comes triangle.
- Q15. (C) Adding 10 to 60 gives 70.
- Q16. (C) The second number is the first multiplied by itself: $3 \times 3 = 9$, so $4 \times 4 = 16$.
- Q17. (A) The rule is: multiply the two numbers. Check: 4, 5 gives 20 and 6, 3 gives 18; so 3, 2 gives 6.
- Q18. (C) The number just after 1127 is 1128.
- Q19. (B) The gaps grow by one each time (+2, +3, +4, +5), so after N the next letter is S.
- Q20. (D) Every other number is a multiple of 7. 40 is not.
- Q21. (D) C is letter 3 and A is letter 1 and T is letter 20, so $CAT = 3 - 1 - 20$.
- Q22. (B) Counting 2 day(s) on from Monday gives Wednesday.
- Q23. (B) Counting lines of symmetry: regular hexagon has 6, regular pentagon has 5, equilateral triangle has 3, square has 4. The answer is figure (B).
- Q24. (A) Each letter moves 3 place(s) forward in the alphabet, so after J comes M.
- Q25. (A) Position from the right = total - position from the left + 1 = $25 - 16 + 1 = 10$ th.
- Q26. (C) Each number is 6 more than the one before it, so the next is $33 + 6 = 39$.
- Q27. (C) The two 6 m walks (north, then south) cancel out, leaving only the 7 m walked towards the east. So the answer is 7 m, East.
- Q28. (C) The pattern repeats circle then square over and over, so after circle comes square.
- Q29. (C) Adding 5 to 45 gives 50.
- Q30. (A) The second number is the first multiplied by itself: $3 \times 3 = 9$, so $5 \times 5 = 25$.
- Q31. (D) A 4-digit number cannot begin with 0, so the smallest possible first digit is 1. The remaining digits are then placed in increasing order: 1023.
- Q32. (C) $15 + 25 + 10 + 20 + 5 = 75$ books.
- Q33. (C) The missing number is $183 - 59 = 124$.
- Q34. (A) $3 \times 11 = 33$ samosas in all, and $33 - 15 = 18$ are left.
- Q35. (C) That describes the Indian tricolour with the Ashoka Chakra in the white band.

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