CLASS
7

SCIENCE OLYMPIAD FOUNDATION

SAMPLE PAPER 2026-27

SOF INTERNATIONAL MATHEMATICS OLYMPIAD

Total Questions : 50 | Time : 1 hr.

PATTERN & MARKING SCHEME				
Section	(1) Logical Reasoning	(2) Mathematical Reasoning	(3) Everyday Mathematics	(4) Achievers Section
No. of Questions	15	20	10	5
Marks per Ques.	1	1	1	3

SYLLABUS

Section – 1 : Verbal and Non-Verbal Reasoning.

Section – 2 : Large Numbers Around Us, Arithmetic Expressions, Expressions using Letter-Numbers, Lines and Angles, Number Play, Triangles, Congruence of Triangles, Fractions, Decimals, Integers, Factors and Multiples, Data Handling, Constructions and Tilings, Simple Equations.

Section – 3 : Syllabus as per Section – 2.

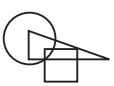
Section – 4 : Higher Order Thinking Questions - Syllabus as per Section – 2.

LOGICAL REASONING

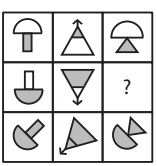
1. In a certain code language, if 'ELECTIONS' is written as COCFTGRLV, then how will 'CANDIDATE' be written in the same code language?
(A) HRDBIGLDA (B) EDPGIFDVH (C) ADLGIBDRH (D) HVDFIGPDE

2. Which of the following options satisfies the same conditions of placement of dots as in the given figure?



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

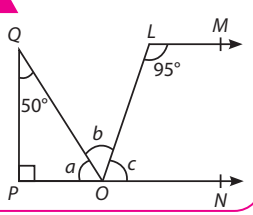
3. Which of the following options will complete the given figure matrix?



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

MATHEMATICAL REASONING

4. In the given figure (not drawn to scale), $LM \parallel PN$. Find the value of $c - b$.
(A) 55°
(B) 35°
(C) 40°
(D) 30°



5. Compare and fill the box using >, < or =.

$$1507 + 1719 - 2305 \square 806 - 967 + 1103$$

(A) >
(B) <
(C) =
(D) Can't be determined

6. Compare and fill the box with >, < or =.

$$\frac{3.45 - 6.75 + 2.05}{0.29 + 0.426 \quad 0.6} \square \frac{0.175 \quad 0.7 - 0.45}{5.95 - 8.25 + 2.40}$$

(A) <
(B) =
(C) >
(D) Can't be determined

EVERYDAY MATHEMATICS

7. Raghav had 147 old stamps. He lost $\frac{3}{7}$ of stamps and gave $\frac{2}{7}$ of stamps to his brother. How many stamps are left with him now?

(A) 42 (B) 49 (C) 52 (D) 59

8. Manvi says that she got 16 more marks than 4 times the number of marks scored by Aashi. Form an equation which gives the marks scored by Aashi, if Manvi scored 72 marks.

(A) $16x + 4 = 72$ (B) $16 + 4x = 72$ (C) $16x + 72 = 4$ (D) $72 + 4x = 16$

ACHIEVERS SECTION

9. Read the following statements carefully and select the correct option.

Statement-1 : If ₹ 880 has to be divided among three daughters of Shyam such that Sunita receives $\left(\frac{3}{7}\right)^{th}$ of what Rekha and Jyoti together receive, then Sunita's share is ₹ 264.

Statement-2 : If the mean of 8, 9, x, 10, 5 is 15, then the value of x is 43.

(A) Both Statement-1 and Statement-2 are true.
(B) Both Statement-1 and Statement-2 are false.
(C) Statement-1 is true but Statement-2 is false.
(D) Statement-1 is false but Statement-2 is true.

10. Match the following :

List-I		List-II
(P) Total number of odd multiples of 3 from 1 to 35 is	1.	21
(Q) In Fibonacci : Sum of 5^{th} and 6^{th} term is	2.	11
(R) Centre of a 3×3 magic square is	3.	6
(S) If $ABC = 182$, then sum of digits of A, B, C is	4.	5

(A) P-1, Q-3, R-4, S-2
(B) P-4, Q-1, R-3, S-2
(C) P-3, Q-1, R-2, S-4
(D) P-3, Q-1, R-4, S-2

ANSWER KEY

1. (C) 2. (C) 3. (C) 4. (D) 5. (B) 6. (C) 7. (A) 8. (B) 9. (A) 10. (D)