CLASS
4

SCIENCE OLYMPIAD FOUNDATION

SAMPLE PAPER 2026-27

SOF INTERNATIONAL MATHEMATICS OLYMPIAD

Total Questions : 35 Time : 1 hr.

PATTERN & MARKING SCHEME

Section	(1) Logical Reasoning	(2) Mathematical Reasoning	(3) Everyday Mathematics	(4) Achievers Section
No. of Questions	10	10	10	5
Marks per Ques.	1	1	1	2

SYLLABUS

Section – 1 : Patterns, Alphabet Test, Coding-Decoding, Ranking Test, Mirror Images, Geometrical Shapes and Solids, Embedded Figures, Direction Sense Test, Possible Combinations, Analogy and Classification, Clock and Calendar.

Section – 2 : Numerals, Number Names, Number Sense (more than 4-digit numbers), Computation Operations, Fractions, Length, Weight, Capacity, Time, Money, Geometry, Perimeter of Various Shapes, Symmetry, Conversions, Data Handling.

Section – 3 : Syllabus as per Section–2.

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

LOGICAL REASONING

1. The codes of some digits are given below.

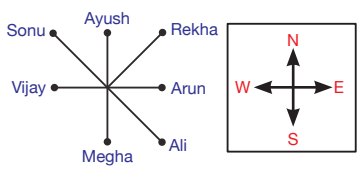
Digits	5	3	6	1	7	8	4	2
Codes	@	#	U	$	H	E	%	©

Find the code for 85261.

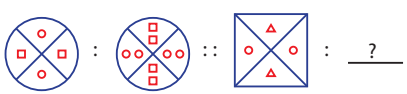
(A) E©@#$ (B) %@©UH (C) E@©U$ (D) H@©#%

2. Who among the following is in the South-West of Arun?

(A) Vijay
(B) Rekha
(C) Megha
(D) Ali



3. There is a certain relationship between the pair of figures on the either side of ::. Identify the relationship of the given pair and find the missing figure.



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

MATHEMATICAL REASONING

4. Which of the following fractions is $\frac{5}{6}$ more than $\frac{7}{12}$?

(A) $1\frac{7}{12}$ (B) $1\frac{5}{12}$ (C) $2\frac{7}{12}$ (D) $3\frac{5}{12}$

5. If ☐ + ☐ + ☐ + ☐ + ☐ = 125 and ☐ − 4 ★ = ★,

then find the value of ★ + ★ + ☐ + ☐.

(A) 25 (B) 45 (C) 50 (D) 60

6. Which of the following options is INCORRECT?

(A) 7th multiple of greatest one-digit number is 63.

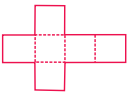
(B) Largest multiple of a number is the number itself.

(C) The number of common factors of 17 and 51 is 2.

(D) None of these

EVERYDAY MATHEMATICS

7. Varun made a shape by folding the given cardboard along the dotted lines. Which shape did Varun make?



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

8. The capacity of a small container is 400 mL and the capacity of a big container is 1500 mL. If Sumit uses 9 small containers and 2 big containers of water to fill up an empty tank, then what is the capacity of the tank?

(A) 5 L 200 mL (B) 6 L 600 mL (C) 4 L 500 mL (D) 6 L 60 mL

ACHIEVERS SECTION

9. Identify the number using the given clues.

- Its ones place digit is the face value of digit at hundreds place in 5782.
- Its tens place digit is the greatest one-digit even number.
- Its thousands place digit is the tens place digit of CDLXIX.
- Its hundreds place digit is greater than its tens place digit.
- Its ten thousands place digit is less than 6 but more than 3.

(A) 55987 (B) 46798 (C) 47978 (D) 46987

10. Read the given statements carefully and state T for true and F for false.

P. The number of letters having perpendicular lines in the given word is 4.



Q. The number of lines of symmetry in a square is 4.

R. An isosceles triangle does not have any line of symmetry.

	P	Q	R
(A)	F	F	T
(B)	T	F	F
(C)	F	T	T
(D)	T	T	F

ANSWER KEY

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