CLASS
6

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 : Patterns in Mathematics, Lines and Angles, Number Play, Data Handling and Presentation, Prime Time, Perimeter and Area, Fractions, Playing with Constructions, Symmetry, The Other Side of Zero.

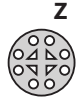
Section – 3 : Syllabus as per Section – 2.

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

LOGICAL REASONING

1. The given question consists of a set of three figures X, Y and Z which shows the sequence of folding of a piece of paper. Fig. Z shows the manner in which the folded paper has been cut. Select a figure from the options which shows the unfolded form of Fig. Z.

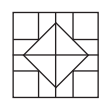


(A)  (B)  (C)  (D) 

2. Megha walks 120 m towards East, then takes a left turn and walks 60 m. She then turns left again and walks 80 m. She then takes a right turn and walks 40 m. Finally, she walks 40 m after turning to her left. How far is she now from her starting point?

(A) 60 m (B) 100 m (C) 140 m (D) 40 m

3. Find the number of squares formed in the given figure.



(A) 9 (B) 10
(C) 11 (D) More than 11

MATHEMATICAL REASONING

4. How many of the given letters have pairs of perpendicular lines?

F M A H I E

(A) 4 (B) 5 (C) 6 (D) 3

5. Which of the following is the correct representation of the number of story books sold in the month of May, if 1  = 150 books?

Months	Number of books sold
May	
June	600
July	450
August	300
Total	2100

(A) 

(B) 

(C) 

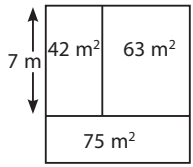
(D) 

6. Which of the following clock timings forms a palindrome?

(A) 06:56 (B) 12:12 (C) 10:22 (D) 10:01

EVERYDAY MATHEMATICS

7. Riddhi joined three rectangular pieces of cloth to make a big rectangular table cloth (as shown in the given figure). Area of each rectangle is given inside. Find the cost of lacing the table cloth formed at the rate of ₹ 32 per m. (Ignore the stitching margins).



(A) ₹ 1800 (B) ₹ 1728

(C) ₹ 1290 (D) ₹ 1350

8. If the price of diesel was ₹ 68 in 2017, increased to ₹ 70 in 2018, decreased by ₹ 6 in 2019, increased by ₹ 16 in 2020, then what is the price of diesel in 2020?

(A) ₹ 80 (B) ₹ 79 (C) ₹ 64 (D) ₹ 68

ACHIEVERS SECTION

9. Read the given statements carefully and select the CORRECT option.

Statement-I : $\frac{4}{9}$ of the animals at the farm were cows. $\frac{1}{2}$ of the remaining animals were goats and rest were chicks. The fraction of the animals at the farm that were chicks is $\frac{5}{18}$.

Statement-II : Jyoti had a collection of 640 round, rectangular and triangular stickers. $\frac{3}{8}$ of the stickers were round, $\frac{1}{4}$ of remaining were triangular and rest were rectangular. She had 200 more rectangular stickers than triangular stickers.

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

10. Which of the following options is INCORRECT?

(A) 755712 is divisible by 2, 4 and 8.
(B) 1183 and 1792 are not co-prime numbers.
(C) Prime factors of 255 are 1, 3, 5 and 17.
(D) 7th multiple of greatest factor of 144 is 1008.

ANSWER KEY

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