

CLASS 7 | SESSION 2026-27

Total Questions : 50 Time : 1 hr.

PATTERN & MARKING SCHEME

Section	No. of Questions	Marks per Ques.	Total Marks
(1) Logical Reasoning	15	1	15
(2) Subject Reasoning	20	1	20
(3) Everyday Application	10	1	10
(4) Achievers Section	5	3	15
Total	50	--	60

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

HOW TO USE THIS PAPER

- Every question is followed immediately by its answer.
- Try each question on your own first, then check the green answer card.
- Use the answer key at a glance on the last page for a quick revision.

TEST DAY INSTRUCTIONS

- The paper has 50 questions carrying a total of 60 marks.
- All questions are compulsory and there is no negative marking.
- Duration is 1 hour - aim for about 60 seconds per question.
- Read every question carefully before choosing your option.

SCORING STRATEGY

- Attempt the Logical Reasoning section first - it is the quickest to score.
- Take the 3-mark Achievers questions after finishing the 1-mark questions.
- Revisit every skipped question during the last ten minutes.

QUESTION 1

Logical Reasoning · 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) HRBIGLDA (B) EDPGIFDVH (C) ADLGIBDRH (D) HVDFIGPDE

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (C)

- Identify the underlying pattern and concepts under Visual pattern analysis & directional logic.
- Applying the principles of Mathematics for Class 7, evaluate the given options systematically.
- Option (C) satisfies all required conditions and yields the correct result.

QUESTION 2

Logical Reasoning · Logical Reasoning

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



ANSWER & STEP-BY-STEP EXPLANATION

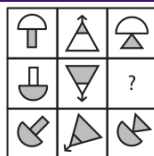
Correct: (C)

- Identify the underlying pattern and concepts under Coding-decoding & sequence completion.
- Applying the principles of Mathematics for Class 7, evaluate the given options systematically.
- Option (C) satisfies all required conditions and yields the correct result.

QUESTION 3

Logical Reasoning · Logical Reasoning

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



ANSWER & STEP-BY-STEP EXPLANATION

Correct: (C)

- Identify the underlying pattern and concepts under Analogy & classification reasoning.
- Applying the principles of Mathematics for Class 7, evaluate the given options systematically.
- Option (C) satisfies all required conditions and yields the correct result.

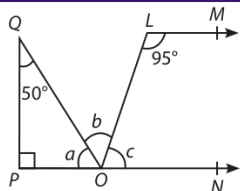
QUESTION 4

Mathematical Reasoning · 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°



ANSWER & STEP-BY-STEP EXPLANATION

Correct: (D)

- Identify the underlying pattern and concepts under Algebraic expressions & equations.
- Applying the principles of Mathematics for Class 7, evaluate the given options systematically.
- Option (D) satisfies all required conditions and yields the correct result.

QUESTION 5

Mathematical Reasoning · Mathematical Reasoning

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

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

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

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (B)

- Identify the underlying pattern and concepts under Geometry & angle relationships.
- Applying the principles of Mathematics for Class 7, evaluate the given options systematically.
- Option (C) satisfies all required conditions and yields the correct result.

QUESTION 6

Mathematical Reasoning · Mathematical Reasoning

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

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

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

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (C)

- Identify the underlying pattern and concepts under Euclidean geometry & theorems.
- Applying the principles of Mathematics for Class 7, evaluate the given options systematically.
- Option (C) satisfies all required conditions and yields the correct result.

QUESTION 7

Everyday Mathematics · Mathematical Reasoning

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

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (A)

- Identify the underlying pattern and concepts under Polynomials & financial math.
- Applying the principles of Mathematics for Class 7, evaluate the given options systematically.
- Option (A) satisfies all required conditions and yields the correct result.

QUESTION 8

Everyday Mathematics · Mathematical Reasoning

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) $72 + 4x = 16$

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (B)

- Identify the underlying pattern and concepts under Mensuration & 3D solid geometry.
- Applying the principles of Mathematics for Class 7, evaluate the given options systematically.
- Option (B) satisfies all required conditions and yields the correct result.

QUESTION 9

Achievers Section · 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 $\left(\frac{3}{7}\right)^{\text{th}}$ 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.

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (A)

- Identify the underlying pattern and concepts under HOTS: Multi-concept analytical evaluation.
- Applying the principles of Mathematics for Class 7, evaluate the given options systematically.
- Option (A) satisfies all required conditions and yields the correct result.

QUESTION 10

Achievers Section · Achievers Section

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 & STEP-BY-STEP EXPLANATION

Correct: (D)

- Identify the underlying pattern and concepts under HOTS: Advanced mathematical statement verification.
- Applying the principles of Mathematics for Class 7, evaluate the given options systematically.
- Option (D) satisfies all required conditions and yields the correct result.

ANSWER KEY AT A GLANCE

Q1
(C)

Q2
(C)

Q3
(C)

Q4
(D)

Q5
(B)

Q6
(C)

Q7
(A)

Q8
(B)

Q9
(A)

Q10
(D)

REVISION NOTES

- Attempt the section you are strongest in first - it is the quickest to score.
- Aim for about 60 seconds per question and keep an eye on the clock.
- Re-read the question before choosing an option; watch for 'NOT' and 'EXCEPT'.
- Skip and mark anything you are unsure of, then revisit it in the last ten minutes.
- Practise chapter-wise to build both speed and accuracy before the exam.

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