

CLASS 9 | 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 Number Systems, Polynomials, Algebraic Identities, Coordinate Geometry, Linear Equations in Two Variables, Introduction to Euclid's Geometry, Lines and Angles, Sequences and Progressions, Triangles, Quadrilaterals, Areas of Parallelograms and Triangles, Circles, Area and Perimeter, Constructions, Su

Section 3 The syllabus of this section will be based on the syllabus of Mathematical Reasoning and Quantitative Aptitude

Section 4 Higher Order Thinking Questions - Syllabus as per Section - 2. targetexams.com

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. Three different positions of a dice are shown here. Select a number from the options that will replace the question mark (?) in the given dice.



- (A) 2 (B) 4 (C) 5 (D) 1

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (B)

- Identify the underlying pattern and concepts under Visual pattern analysis & directional logic.
- Applying the principles of Mathematics for Class 9, evaluate the given options systematically.
- Option (B) satisfies all required conditions and yields the correct result.

QUESTION 2

Logical Reasoning · Logical Reasoning

2. In a certain code language, 'health is wealth' is written as 'sol liv mah', 'smile good health' is written as 'tim sol gil' and 'cry is not smile' is written as 'mah vil tan gil'. How will 'wealth' be written in the same code language?

- (A) sol (B) liv (C) mah (D) gil

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (B)

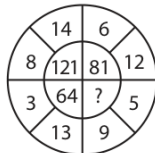
- Identify the underlying pattern and concepts under Coding-decoding & sequence completion.
- Applying the principles of Mathematics for Class 9, evaluate the given options systematically.
- Option (B) satisfies all required conditions and yields the correct result.

QUESTION 3

Logical Reasoning · Logical Reasoning

3. Find the missing number in the given figure.

- (A) 64
(B) 49
(C) 100
(D) 72



ANSWER & STEP-BY-STEP EXPLANATION

Correct: (B)

- Identify the underlying pattern and concepts under Analogy & classification reasoning.
- Applying the principles of Mathematics for Class 9, evaluate the given options systematically.
- Option (B) satisfies all required conditions and yields the correct result.

QUESTION 4

Mathematical Reasoning · Mathematical Reasoning

4. Which of the following equations satisfies the data in the given table?

x	-1	0	1	2
y	-3	-1	1	3

- (A) $y = x - 2$ (B) $y = 2x - 1$ (C) $y = 3x - 3$ (D) $y = x + 1$

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (B)

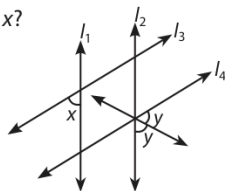
- Identify the underlying pattern and concepts under Algebraic expressions & equations.
- Applying the principles of Mathematics for Class 9, evaluate the given options systematically.
- Option (B) satisfies all required conditions and yields the correct result.

QUESTION 5

Mathematical Reasoning · Mathematical Reasoning

5. If $l_1 \parallel l_2$ and $l_3 \parallel l_4$, then what is the value of y in terms of x ?

- (A) $90^\circ + x$
(B) $90^\circ + 2x$
(C) $90^\circ - \frac{x}{2}$
(D) $90^\circ - 2x$



ANSWER & STEP-BY-STEP EXPLANATION

Correct: (C)

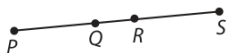
- Identify the underlying pattern and concepts under Geometry & angle relationships.
- Applying the principles of Mathematics for Class 9, evaluate the given options systematically.
- Option (C) satisfies all required conditions and yields the correct result.

QUESTION 6

Mathematical Reasoning · Mathematical Reasoning

6. In the given figure, if $PQ = RS$, then which Euclid's axiom is used to prove $PR = QS$?

- (A) The whole is greater than the part.
(B) Things which are double of the same things are equal to one another.
(C) If equals are added to equals, the wholes are equal.
(D) Things which coincide with one another are equal to one another.



ANSWER & STEP-BY-STEP EXPLANATION

Correct: (C)

- Identify the underlying pattern and concepts under Euclidean geometry & theorems.
- Applying the principles of Mathematics for Class 9, evaluate the given options systematically.
- Option (C) satisfies all required conditions and yields the correct result.

QUESTION 7

Everyday Mathematics · Mathematical Reasoning

7. Vikas has ₹($x^3 + 2ax + b$), with this money he can buy exactly $(x - 1)$ jeans or $(x + 1)$ shirts with no money left. How much money Vikas has, if $x = 4$?

- (A) ₹ 80 (B) ₹ 120 (C) ₹ 30 (D) ₹ 60

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (D)

- Identify the underlying pattern and concepts under Polynomials & financial math.
- Applying the principles of Mathematics for Class 9, evaluate the given options systematically.
- Option (D) satisfies all required conditions and yields the correct result.

QUESTION 8

Everyday Mathematics · Mathematical Reasoning

8. A conical tent is to accommodate 11 persons. Each person must have 4 sq. metres of the space on the ground and 20 cubic metres of air to breath. Find the height of the cone.
- (A) 11 m (B) 16 m (C) 14 m (D) 15 m

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (D)

- Identify the underlying pattern and concepts under Mensuration & 3D solid geometry.
- Applying the principles of Mathematics for Class 9, evaluate the given options systematically.
- Option (A) satisfies all required conditions and yields the correct result.

QUESTION 9

Achievers Section · Achievers Section

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

Statement-I : The $\frac{p}{q}$ form of $15.\overline{712} + 4.\overline{32}$ is $\frac{389}{90}$.

Statement-II : The value of $\frac{\sqrt[3]{0.125} \times \sqrt[5]{(0.00032)^{-2}}}{\sqrt[5]{(0.00243)^{-3}} \times (27)^{2/3}}$ is $\frac{3}{80}$.

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

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (D)

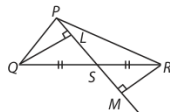
- Identify the underlying pattern and concepts under HOTS: Multi-concept analytical evaluation.
- Applying the principles of Mathematics for Class 9, evaluate the given options systematically.
- Option (D) satisfies all required conditions and yields the correct result.

QUESTION 10

Achievers Section · Achievers Section

10. Which of the following is incorrect?

- (A) In triangles ABC and RQP , if $AB = AC$, $\angle C = \angle P$ and $\angle B = \angle Q$, then the two triangles are isosceles and congruent.
- (B) The perpendiculars drawn from the vertices of equal angles of an isosceles triangle to the opposite sides are equal.
- (C) In the adjoining figure, if PS is a median and QL & RM are perpendiculars drawn from Q and R respectively on PS and PS produced, then $QL = RM$.
- (D) None of these



ANSWER & STEP-BY-STEP EXPLANATION

Correct: (A)

- Identify the underlying pattern and concepts under HOTS: Advanced mathematical statement verification.
- Applying the principles of Mathematics for Class 9, evaluate the given options systematically.
- Option (A) satisfies all required conditions and yields the correct result.

ANSWER KEY AT A GLANCE

Q1
(B)

Q2
(B)

Q3
(B)

Q4
(B)

Q5
(C)

Q6
(C)

Q7
(D)

Q8
(D)

Q9
(D)

Q10
(A)

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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