

Class VIII | 2026-27

Maximum Marks: 25

1. All 13 questions are compulsory. The paper has four sections: A, B, C and D.
2. Section A - 5 marks; Section B - 8 marks; Section C - 9 marks; Section D - 3 marks.
3. Choose one correct option in Section A. Show the necessary working in Sections B, C and D.
4. Study the given data and images carefully before answering the related questions.

(5 questions $\times$ 1 mark = 5 marks)

- (A) Add $3x$
 (B) Subtract x
 (C) Subtract $3x$
 (D) Divide by x

- 3.** The three marked dates lie in one calendar column. What is the bottom date minus the top date?

(A) 14 (B) 12
(C) 21 (D) 7

- (A) 175 (B) 1750
(C) 1 (D) 1001

5. With multiplier 7 fixed, which use of digits 2 and 4 produces the larger product?

(A) Neither can be compared

(B) 42×7

(C) Both are equal

(D) 24×7

SECTION B

(4 questions $\times$ 2 marks = 8 marks)

6. Three digits sum to 12. Find the total of their three cyclic numbers and the quotient when this total is divided by 37.

7. A reversal difference divided by 9 gives 2. Does this identify a unique two-digit number? Give two examples.

8. Increase only the middle bottom entry of a three-row pyramid by 3. How much does the top increase? Explain.

9. Each equation in the image uses the same values for matching shapes. Find the diamond and the circle.

$$\begin{array}{rclclcl} \triangle & + & \triangle & = & 14 \\ \triangle & + & \diamond & = & 19 \\ \diamond & + & \bigcirc & = & 16 \end{array}$$

SECTION C

(3 questions $\times$ 3 marks = 9 marks)

10. A four-row pyramid has bottom entries a, b, c, d. Write the next two rows and derive the top expression.

11. A number trick asks you to add three consecutive whole numbers, then subtract three times the smallest. Prove that the answer is 3. Would the order of the three additions matter?

12. A seller makes 80 badges for ₹6 each and sells them for ₹15 each. Find the greatest stall rent that still allows ₹320 profit.

SECTION D

(Application Based Question - 3 marks)

13. Kabir has three times as many counters as Meena. If Kabir gives Meena 6 counters, they will have equal numbers.

(i) Let Meena have x counters. Write both new amounts after the transfer.

(ii) Find their original numbers of counters.

(iii) Verify the equal amounts and the unchanged total.