

Mathematics
Practice Test Paper 5
(Ganita Prakash Part 2 | Chapter 6: Algebra Play)
Class VIII | 2026-27

Time Allowed: 45 Minutes

Maximum Marks: 25

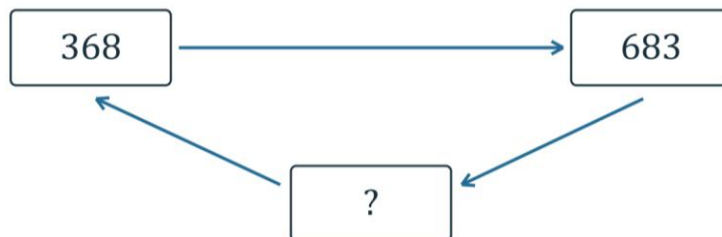
General Instructions

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.

SECTION A

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

1. Reverse 80 to get 08, which has value 8. What is $(80 - 8) \div 9$?
(A) 9 (B) 8
(C) 0 (D) 72
2. Which total is impossible for a complete 2×2 calendar block?
(A) 40 (B) 72
(C) 52 (D) 50
3. A shape grid gives each row total at the right. What does adding all row totals give?
(A) Only the first column total (B) The total of all entries
(C) The value of each shape (D) Three times every entry
4. The bottom row of a four-row pyramid is 1, 2, 3, 5. What is the top?
(A) 13 (B) 21
(C) 34 (D) 8
5. Each arrow moves the first digit to the end. Which number belongs in the empty card?



- (A) 386 (B) 638
(C) 683 (D) 836

SECTION B

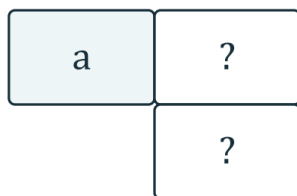
(4 questions $\times$ 2 marks = 8 marks)

6. A player starts with x counters. Each move doubles the counters and removes 5. Write and simplify the number left after two moves.
7. Use 4, 5 and 9 once each to form a two-digit number times a one-digit number. Find the smallest product by comparing three candidates.
8. A three-row pyramid has base 6, x , 14 and top 40. Would x change if the end entries became 9 and 11? Explain.
9. For three consecutive calendar dates in one row, why does subtracting 3 from their sum and dividing by 3 give the first date?

SECTION C

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

10. A three-digit number n is repeated to make a six-digit number. Prove that this number is divisible by 7 and express the quotient in n .
11. Can this L-shaped calendar selection have total 53? Form an equation for a and justify your decision.



12. A mother is 30 years older than her daughter. In 5 years she will be three times as old. Find and check their present ages.

SECTION D

(Application Based Question - 3 marks)

13. A date trick performs these steps: multiply the month number M by 4, add 3, multiply by 25, then add the day D .
- (i) Write the final expression in M and D .
- (ii) What must be subtracted before separating the month and day?
- (iii) Decode a final result of 1183.