

Mathematics
Practice Test Paper 1
(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.

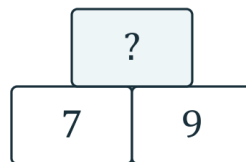
SECTION A

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

1. Double a number, add 10, halve the result, then subtract the original number. What remains?

- (A) 2 (B) 10
(C) 5 (D) 20

2. Each box in a number pyramid is the sum of the two boxes directly below it. What belongs in the top box?



- (A) 18 (B) 16
(C) 14 (D) 15

3. On a calendar, which number is directly below a date numbered d ?

- (A) $7d$ (B) $d + 7$
(C) $d + 6$ (D) $d + 1$

4. A two-digit number has tens digit p and ones digit q . Which expression represents the number?

- (A) $p + q$ (B) $10p + q$
(C) $10q + p$ (D) pq

5. Which multiplier changes 352 into 352352?

- (A) 111 (B) 1000
(C) 101 (D) 1001

SECTION B

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

6. Reverse the digits of 36. Subtract the smaller number from the larger and divide by 9. Relate the quotient to the two digits.
7. Use the digits 1, 4 and 8 once each to form a two-digit number multiplied by a one-digit number. Find the greatest possible product.
8. A date is encoded as $100M + 165 + D$, where M is the month number and D is the day. Decode the result 982.
9. All three entries in the bottom row of a three-row number pyramid are t. Express the top number in terms of t.

SECTION C

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

10. The four dates in this calendar block total 64. Find a and complete the block. Show how the calendar spacing helps.

a	?
?	?

11. Triple a number, add 21, divide by 3, then subtract the original number. Prove that the result is fixed. Check with starting number 4.
12. A shelter has 26 hens and rabbits with 74 legs altogether. Find both counts using the extra legs beyond two per animal.

SECTION D

(Application Based Question - 3 marks)

13. A stall pays ₹600 daily rent. Each sandwich costs ₹15 to make and sells for ₹35.
- (i) Write the total daily cost for n sandwiches.
- (ii) Write the profit for n sandwiches, assuming all are sold.
- (iii) How many sandwiches must be sold to earn a profit of ₹400?