

Mathematics
Practice Test Paper 10
(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 × 1 mark = 5 marks)

1. Which expression always returns the starting number x ?

(A) $5(x + 3) - x$

(B) $\frac{5x+15}{5} - 3$

(C) $5x + 15 - 5x$

(D) $\frac{5x+15}{5} - x$

2. Which choice lists all two-digit numbers with distinct non-zero digits giving the greatest sum with their reversal?

(A) 79

(B) 12

(C) 89

(D) 98 and 89 both do

3. In a number pyramid, the sum of two boxes is 18 and the left box is 11. Which operation finds the right box?

(A) $18 + 11$

(B) $18 - 11$

(C) $18 \div 11$

(D) 18×11

4. Two identical circles and a square total 23. If the square is 9, what is a circle worth?

(A) 8

(B) 6

(C) 5

(D) 7

5. The grid increases by 1 across each row and by 10 down each column. What belongs in the marked cell?

2	3	4	5
12	13	14	15
22	?	24	25

(A) 22

(B) 23

(C) 32

(D) 24

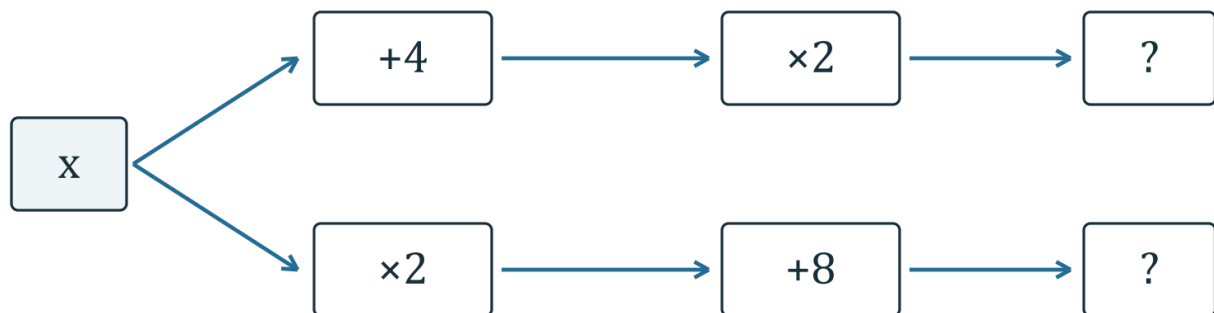
SECTION B

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

6. Can two distinct non-zero digits have a reversal difference of 45 and a digit sum of 8? Use an equation to decide.

7. The column totals of a 2×2 calendar block are reported as 35 and 39, from left to right. Can both be correct? Explain.

8. The two routes start with the same number x . Are their outputs always equal? Simplify each route to justify your answer.



9. A shape grid has row totals 18, 22 and 20. Its first and third columns total 21 and 17. Find the second column total and explain.

SECTION C

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

10. A six-row pyramid starts with the first six terms of 1, 2, 3, 5, ... Find its top using the sequence pattern and explain why the pattern continues in every row.

11. Start with 11 coins. Each round doubles them and charges 6 coins. Find the amounts after three rounds and explain why they keep growing.

12. A pupil chooses 85×2 as the greatest product using 2, 5 and 8 once each because 85 is greatest. Correct the reasoning and find the true maximum.

SECTION D

(Application Based Question - 3 marks)

13. A pupil repeats the three-digit block 624 to make 624624. She divides first by 13, then by 7, then by 11.

- (i) Explain why the order of these three divisions does not change the final result.
- (ii) Find the final result without long division.
- (iii) Write the intermediate results after division by 13 and then by 7.