

Mathematics
Practice Test Paper 7
(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. A two-digit number has equal digits. What happens when its reversal is subtracted from it?

- (A) The answer is 11
(B) The answer is 0
(C) The answer is 9
(D) The answer is the digit

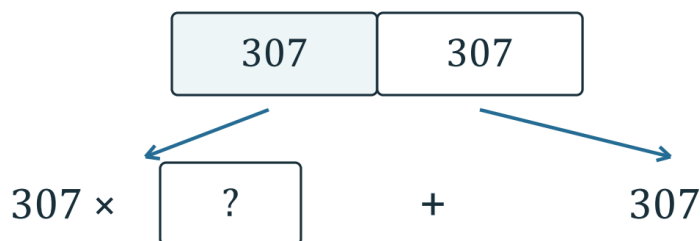
2. A 2×3 calendar rectangle has first row $a, a + 1, a + 2$. What is the sum of all six dates?

- (A) $6a + 9$ (B) $6a + 21$
(C) $6a + 27$ (D) $6a + 42$

3. In a shape grid, $2s + t = 17$ and $s + 2t = 17$. What must be true?

- (A) $s + t = 17$ (B) $s = 2t$
(C) $s = 17$ (D) $s = t$

4. The image separates 307307 into two place-value parts. What belongs in the empty box?



- (A) 1001 (B) 1000
(C) 100 (D) 10

5. A fraction uses the first five odd numbers in its numerator and the next five in its denominator. What is the denominator?

- (A) 75
(C) 100

- (B) 25
(D) 50

SECTION B

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

6. Use 0, 4 and 7 once each in a two-digit number times a one-digit number. Show two arrangements with the same greatest product. No leading zero is allowed.

7. Explain why 1398 cannot be a valid date code of the form $100M + 165 + D$.

8. Asha gives Bilal 8 marbles and still has at least as many as he does. By how much has the difference between their amounts decreased?

9. Can a three-row pyramid of whole numbers have an odd top when both outside bottom entries are even? Explain.

SECTION C

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

10. A trick triples x , adds 12, divides by 3 and subtracts x . Tara writes $\frac{3x+12}{3} = x + 12$. Explain her error and find the correct final result.

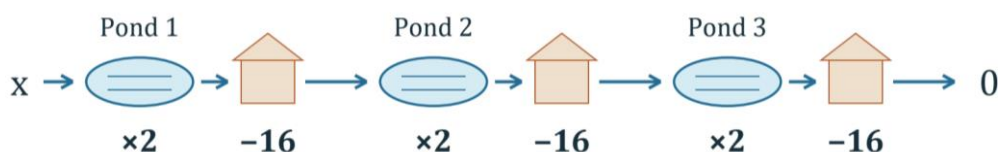
11. Three calendar dates lie diagonally, moving one row down and one column right each time. Their sum is 51. Find them and explain the step size.

12. A number and its reversal differ by 45; their digits sum to 9. Find both numbers, showing how you find the digits.

SECTION D

(Application Based Question - 3 marks)

13. At each pond the flowers double, then 16 are offered at the shrine. None remain after the third offering.



(i) How many flowers were present just before the third pond?

(ii) Work backwards to find the number before the second pond and the starting number.

(iii) Check the starting number by following all three stages.