



SATISH CHANDRA MEMORIAL SCHOOL
PRACTICE TEST-AUGUST, 2025
STD-VI
HIGH ORDER THINKING SKILL QUESTIONS

Q 1. Festival Prasad Distribution

4 MARKS

Source: During **Ganesh Chaturthi**, a temple in Pune prepares 200 modaks as prasad. The modaks are distributed to groups in fractions:

- $\frac{1}{2}$ of the modaks go to villagers,
- $\frac{1}{4}$ to school children,
- $\frac{1}{10}$ to volunteers.
- The rest are kept for evening visitors.

Question:

- How many modaks are distributed to each group?
- What fraction and how many modaks are left for the evening?
- If each modak weighs $\frac{1}{8}$ kg, what is the total weight of modaks given to volunteers?

Q 2. Bus Number Mystery in Mumbai

4 MARKS

A BEST bus in Mumbai has the number **4312**.

A teacher asked students to find something special about the number using these steps:

- Reverse the digits and subtract the smaller number from the larger.
- Take the result, reverse it, and add it to the original result.

Tasks:

1. Show all the steps.
2. What is the final result?
3. Do you think this trick will work with all 4-digit numbers? Why or why not?

Q 3. Exploring Palindromes – A Kerala Maths Challenge

4 Marks

A school in Kerala gave students the number **5445**, a **palindrome** (same forward and backward).

- Find 2 more 4-digit palindromes using only **even digits**.
- Add the digits of your palindrome numbers. What patterns do you see?
- Create a 4-digit number that is **not a palindrome**. Reverse it and add it to the original.
- Does the result become a palindrome? Explain your findings.

Q 4. Write two different numbers less than 50 which have exactly 3 prime factors (not necessarily distinct). Show their prime factorization.

2 MARKS

Q 5 Why is 1 neither a prime number nor a composite number? Explain using the definition and apply it to evaluate whether 0 is prime or composite.

2 MARKS