

# Paper 8

August 23, 2024

1. Compute  $10110 - 2 \times 9$ .

2. Find LCM of 240 and 320.

3. If  $x$  is  $-4$ , what is the value of  $-2x^3 - 3x^2$ .

4. Evaluate  $693 \times 1587 - 691 \times 1587$

5. Kartik adds up all the even numbers from 2 to 100. Keshav adds up all numbers from 1 to 50. What is the result when Kartik's sum is divided by Keshav's sum.

6. A two digit number is five times the sum of its digits. If 9 is added to the number, its digits get reversed. What is the number?

7. Wage of 4 men and 5 boys together is Rs 22. Wage of 5 men and 4 boys together is Rs 23. What are the wages of one man and one boy?

8. What is the greatest odd factor of 12024?



9. Evaluate  $(\frac{2}{3}x^3y^5)^3$

10. How many zeros are there at the end of  $1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7 \times 8 \times 9 \times 10$