

Paper 9

August 30, 2024

1. Find $\frac{12^3}{6^3} - 1$.

2. Find $(3x + 2y)^2$

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

4. Evaluate $\frac{2}{7} \times \frac{14}{11} \times \frac{33}{4}$

5. What is the value $(\frac{1}{3})^{-2}$?

6. Sum of digits of a two digit number is 10. If 54 is added to the number digits get reversed. What is the number?

7. There are 10 vehicles - some cars and some scooters. Altogether they have 28 wheels. How many cars and how many scooters are there?

8. If $x = 10$ and $y = -5$, what is the value of $x^2 + 4y^2 + 4xy$?

9. If we write all positive integers from 1 to 1000, how many times would we have used 0?

10. How many zeros are there at the end of $1 \times 2 \times 3 \times 4 \times \cdots \times 49 \times 50$?