

BK BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS

SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL



PRE MID TERM EXAMINATION (2024)

MATHEMATICS



Class : VIII
Date : 31-07-2024
Admission No.:

Duration : 1 Hr
Max. Marks : 25
Roll No.:

General Instructions:

1. All Questions are compulsory.
2. There are 15 questions.

I. CHOOSE THE CORRECT ALTERNATIVE IN THE FOLLOWING.

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1. The product of non – zero rational number and its reciprocal is
a) 0 b) 1 c) -1 d) none of these
2. Every integer is a :
a) Rational number b) natural number c) Whole number d) none of these
3. Which of the following is commutative for rational numbers?
a) Addition and subtraction b) Addition and multiplication c) Multiplication and division d) Subtraction and division
4. $\frac{6}{5} \times \frac{7}{11} = \frac{7}{11} \times \frac{6}{5}$, the property used is
a) multiplicative identity b) multiplicative inverse c) commutative d) none of these
5. $5x + 4 = 2(9 - x)$ then value of x is
a) 1 b) 2 c) -2 d) 14
6. The solution of the equation , $2(x - 5) = x - 4$ is
a) 6 b) 7 c) 3 d) no solution
7. The degree of linear equation is
a) 1 b) 2 c) 3 d) 4
8. The solution of $\frac{y}{5} = \frac{10}{1}$ is:
a) 15 b) 10 c) 50 d) 5

II. SOLVE THE FOLLOWING

9. Find : $\frac{4}{3} + \frac{8}{3} + \frac{2}{5}$ 2
10. Solve for : $5x + 9 = 5 + 3x$ 2
11. Simplify : i) $\frac{-25}{21} \times \frac{7}{24}$ ii) $\frac{-11}{3} \times \frac{-27}{88}$ 2

12. Solve : $4y + 3 = -6 + 2y$ **2**

13. Simplify and check your result. $5x - 3 = 3x - 5$ **3**

14. Solve the linear equation: $15(y - 4) - 2(y - 9) + 5(y + 6) = 0$ **3**

15. Simplify: i) $\frac{3}{5} \times \left[\frac{7}{12} + \frac{3}{4} \right]$ **2 + 1 = 3**

ii) Name the property : a) $\frac{4}{5} \times 1 = 1 \times \frac{4}{5}$

b) $\frac{-13}{17} \times \frac{-2}{7} = \frac{-2}{7} \times \frac{-13}{17}$
