



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL



PRE-MID TERM-2025-26 MATHEMATICS (041) MARKING SCHEME

Class: VIII
Date: 04/08/2025

Time: 1hr
Max Marks: 25

I. MCQ

1. 1 (B)
2. Commutative (C)
3. 6 (A)
4. 50 (C)
5. 1 (A)

6. Simplify : $\frac{3}{7} + \frac{6}{21} + \frac{5}{3} = \frac{9}{21} + \frac{6}{21} + \frac{35}{21}$ (LCM = 21) 1

$$= \frac{9+6+35}{21} \quad \frac{1}{2}$$

$$= \frac{50}{21} \quad \frac{1}{2}$$

7. i) Multiplicative Identity by 1 ii) Commutative $\frac{1}{2} + \frac{1}{2} = 1$
 iii) Multiplicative identity iv) Associative $\frac{1}{2} + \frac{1}{2} = 1$

8. $5x + 9 = 5 + 3x$
 $2x = -4$ $\frac{1}{2}$
 $x = -2$ $\frac{1}{2}$

Check

$$5(-2) + 9 = 5 + 3(-2) \quad \frac{1}{2}$$

$$-1 = -1 \quad \frac{1}{2}$$

9. $2x - 1 = 14 - x$
 $3x = 15$ 1
 $x = 5$ 1

10. i) $\frac{-25}{21} \times \frac{7}{24} = \frac{-25}{72}$ 1

ii) $\frac{-11}{3} \times \frac{-27}{88} = \frac{9}{8}$ 1

$$\text{iii) } \frac{8}{5} \div \frac{4}{5} = \frac{8 \times 5}{5 \times 4} \quad \frac{1}{2}$$

$$= \frac{2}{1} \quad \frac{1}{2}$$

$$11. \quad \frac{3}{5} \times \left[\frac{7}{12} + \frac{3}{4} \right] = \frac{3}{5} \times \left[\frac{7}{12} + \frac{3 \times 3}{4 \times 3} \right] \quad \frac{1}{2}$$

$$= \frac{3}{5} \times \left[\frac{7}{12} + \frac{9}{12} \right] \quad 1$$

$$= \frac{3}{5} \times \frac{16}{12} \quad 1$$

$$= \frac{4}{5} \quad \frac{1}{2}$$

$$12. \quad 3(x - 3) = 5(2x + 1)$$

$$3x - 9 = 10x + 5 \quad 1$$

$$3x - 10x = 5 + 9 \quad 1$$

$$-7x = 17 \quad \frac{1}{2}$$

$$x = -2 \quad \frac{1}{2}$$

$$13. \quad 15(y - 4) - 2(y - 9) + 5(y + 6) = 0$$

$$15y - 60 - 2y + 18 + 5y + 30 = 0 \quad 1$$

$$15y + 5y - 2y + 18 + 30 - 60 = 0'' \quad \frac{1}{2}$$

$$18y - 12 = 0 \quad \frac{1}{2}$$

$$y = \frac{12}{18} \text{ or } \frac{2}{3} \quad 1$$
