



COMMON PRE-BOARD EXAMINATION  
MATHEMATICS (STANDARD)–Code No. 041



CLASS-X-(2025-26)

SET: 3

ANSWER KEY

I	MCQ	
	1. $90^\circ$	1
	2. $5/6$	1
	3. 0 units	1
	4. 81.5 cm	1
	5. Coincident	1
	6. $mp = nq$	1
	7. Sum = 6, Product = 6	1
	8. $\operatorname{cosec} \theta \sec \theta$	1
	9. $25^\circ$	1
	10. 24.5	1
	11. $416 \text{ cm}^3$	1
	12. $1/m$	1
	13. 3	1
	14. 2, 3	1
	15. $m = 2, n = -1$	1
	16. $72^\circ$	1
	17. $-5/6$	1
	18. 5.8 cm	1
	19. Assertion false, Reason true	1
	20. Assertion false, Reason true	1
II		
	21. $\theta = 45^\circ$	2
	22. $686\pi \text{ cm}^2$	2
	23. 13th term = 0	2
	24. $AO/OC = BO/OD$	2
	25. Tangents are parallel	2
III		
	26. $OP = 13 \text{ cm (approx.)}$	3

	27. $x^2 - 24x + 128 = 0$	3
	28. 36	3
	29. Identity verified (0)	3
	30. $\sqrt{3}$ is irrational / 17 rooms	3
	31. (a) $\frac{3}{49}$ (b) $\frac{2}{49}$	3
IV		
	32. Volume = $25.12 \text{ cm}^3$ , Surface area = $42.88 \text{ cm}^2$	5
	33. 36 camels	5
	34. Mean = 55.2 kg, Mode = 53.5 kg	5
	35. $\frac{1}{x} + \frac{1}{z} = \frac{1}{y}$	5
V		
	36. 47 rows $\rightarrow$ 1109 cans; With 273 cans $\rightarrow$ 23 rows	4
	37. PQ = 86.6 m; Height (north rim) $\approx$ 259.8 m; Remaining $\approx$ 86.6 m	4
	38. AB = $6\sqrt{5}$ , E(7, 0), AD = $8\sqrt{2}$	4